Business Side of Construction

FACTS AND EVENTS THAT AFFECT COST AND VOLUME

This Week's Contracts—Week Ago—Same Week Last Year

THE money value of contracts reported in the present issue of *Engineering News-Record* is here compared with the figures for corresponding weeks. Minimum costs observed are: $15,000 for water-works and excavations; $25,000 for other public works; $40,000 for industrial and $150,000 for commercial buildings.

Money Value of Contracts Let—Entire U. S.

Week Ending	Public Work	Private Work	Total Contracts
March 25, 1926	$17,776,000	$28,126,000	$45,902,000
March 18, 1926.....	20,805,000	22,434,000	43,239,000
March 26, 1925.....	13,863,000	21,322,000	35,185,000
January 1 to date			
1926.....	199,907,000	401,022,000	600,929,000
1925.....	176,511,000	304,913,000	481,424,000

Where Markets For Paint Appear Most Promising

A TOTAL of $1,763,279 spent for paint, exclusive of labor, on 367 jobs throughout the country during the first two months of 1926, shows an average value of $4,804 per project.

A comparison of the average value per job for the United States, in this connection, with paint cost per project in the various sections of the country is given in the accompanying illustration.

For buildings of this character, that is, industrial, $40,000 and over, commercial and other buildings, $150,000 and up, the most fertile area for paint sales is evidently in the Middle Atlantic section, with the Mid-west next and the Southern states third.

The Far West is but slightly under the South so far as demand is concerned, while the section between the Rocky Mountains and the Mississippi appears comparatively slow, with New England showing the least activity of the six great geographical divisions of the country, seasonal conditions considered. The figures on the map deal with contracts already awarded.

Substantial gains were noted in industrial and public building projects definitely reported as proposed, in New England and the Middle West, comparing February with the month preceding.

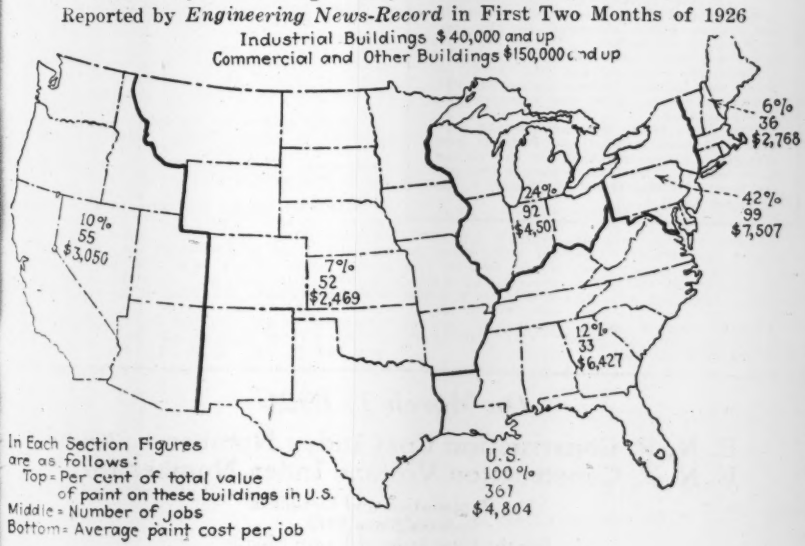
Since Mar. 1, however, there has been consistent weekly increase in building projects proposed, according to *Engineering News-Record* statistics, in the following states:

State	Week of Mar. 4	Week of Mar. 11	Week of Mar. 18	Class of Building
Illinois..	$1,700,000	$3,200,000	$4,225,000	Com'l
Wisconsin	150,000	335,000	645,000	Indus.
New York	.....	18,700,000	25,060,000	Com'l
Calif.....	.....	4,625,000	5,990,000	Com'l
Florida...	.....	3,250,000	5,950,000	Com'l

Over three-quarters of these proposed projects will reach the contract stage between April and June of this year and will require paint at that time.

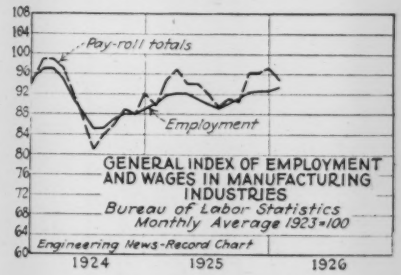
Value of Paint Required for the Building Contracts

Reported by *Engineering News-Record* in First Two Months of 1926



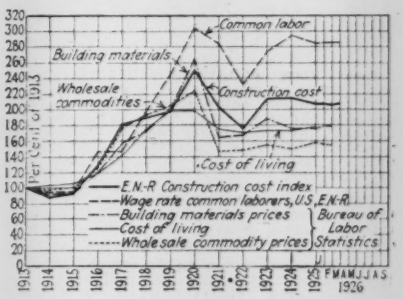
Materials Prices Tending Downward

A downward tendency, evident in wholesale prices since the first of the current year, is also noted in pay-roll totals in the principal manufacturing industries of the nation. Factory employment has increased, indicating a smaller wage rate per hour.



The trend of labor costs in the construction industry has been in the opposite direction from that of factory labor, while employment remained steady.

The gain of 0.5 per cent in March construction cost, over that of the month preceding, was principally due to higher labor rates.



Lumber prices have not fully recovered from the slight drop which occurred during February, compared with the month preceding. Brick tends upward as the spring building season approaches with the usual scarcity forseen in the Northern districts. Steel structurals show little tendency to fluctuate, while prices of other building and construction materials reflect merely the seasonal acceleration in demand.

Weekly Construction Market

CONTRACT letting, Jan. 1 to date, is 24 per cent ahead of the corresponding period last year. Revenue freight loadings, since the first week of the current year, have regularly exceeded 900,000 cars per week, an achievement not attained during the peak year 1925. More than a quarter of this freight represented building and construction materials. Weekly bank debits since Jan. 1, have been consistently heavier than during the same weeks in 1925.

These three vital factors serve to offset, to a degree, the depressing effects of the recent stock market deflation. The liquidation referred to was also reflected in a similar turn in the commodities market, affecting mainly non-ferrous metals, rubber, grains, cotton, coffee and sugar.

Production (all materials included) has pursued during the past two years, a decidedly downward course throughout the first half, followed by a reaction in the latter part of each year. Wholesale prices described a somewhat similar course during 1924 and 1925. This year started off with most of the characteristics of the preceding two years, so far as price and production are concerned; its conduct during the last half will depend largely upon the maintenance of the present volume of demand and at the same time the curbing of speculative excess.

Spring wage agreements in the building trades will probably result in no marked increase in the general cost of construction labor. Building materials prices are below those in effect at this time last year.

	New York	Atlanta	Dallas	Chicago	Minneapolis	Denver	San Francisco	Seattle	Montreal
Steel Products									
Structural shapes, 100 lb	$3.34	$3.40	$4.15	$3.10	$3.35	$3.07½	$3.30	3.35	$3.75
Structural rivets, 100 lb	4.50	3.50	4.75	3.50	3.75	4.65	5.00	3.75	5.50
Reinforcing bars, ¾ in. up, 100 lb	3.24	3.30	3.38	3.00	3.25	3.77½	3.10	3.25	2.30
Steel pipe, black, 2½ to 6 in. lap, discount	48%	53%	53.6%	51%	54.25%	36%	39.2@51%	45%	59 49
Cast-iron pipe, 6 in. and over, ton	50.60@52.60	45.25	54.00	49.20@50.20	53 00	64.00	52.00	55.00	55 00
Concreting Material									
Cement without bags, bbl	2.50	2.35	2.05	2.10	2.32	2.84	2.31	2.65	1.80
Gravel, ¾ in., cu.yd	1.75	1.90	2.38	2.00@2.20	1.65	1.90	1.80	1.50	1.25
Sand, cu.yd	1.00	60	2.00	2.25	1.25	1.00	1.40	1.50	1.25
Crushed stone, ¾ in., cu.yd	1.85	2.50	2.83	2.00@2.20	1.75	2.50	1.70	3.00	1.50
Miscellaneous									
Pine, 3x12 to 12x12, 20 ft. and under, ¦M.ft	62.00	34.00	56.00	39.50	37.75	34.75	27.00	25.00	65.00
Lime, finishing, hydrated, ton	18.20	22.50	20.00	20.00	25.50	24.00	22.00	24 00	21.00
Lime, common, lump, per bbl	2.25@2.75	1.50	1.85	2.25	1.35	2.70	1.60	2.80	10.00
Common brick, delivered, 1,000	20.40	10.50	11.10	12.00	13.50	12.00	15.00	15.00	+20 25
Hollow building tile, 4x12x12, per block	Not used	.0977	.10	.075	.....	075	.....	.10	.12
Hollow partition tile 4x12x12, per block	.1112	.0977	.10	.075	.07	075	.108	.10	.10
Linseed oil, raw, 5 bbl. lots, gal	.83¼	.90¾	1.13	.85	¦96¾	1 06	—1.00	1.12	1.12
Common Labor									
Common labor, union, hour	.62½@ 75	.30	.....	.87½	.....	.50@.55	.55	62½	.....
Common labor, non-union, hour	.....	.25	.30@.50	.82½	.45@.55	.35@.50	50	.50	.25@.30

Explanation of Prices—Prices are to contractors in carload lots unless other quantities are specified. Increases or decreases from previous quotations are indicated by + or — signs. For steel pipe, the prevailing discount from list price is given; 45-5% means a discount of 45 and 5 per cent.

New York quotations delivered, except sand, gravel and crushed stone, alongside dock; common lump lime, in 280-lb. bbl. net and hydrated lime, f.o.b. cars; tile "on trucks"; linseed oil and cast-iron pipe f.o.b. Labor—Concrete laborers' rate, 93¾c.; building laborers, 75c.; excavating laborers, 62½c. per hr.

Chicago quotes hydrated lime in 50-lb. bags; common lump lime per 180-lb. net. Lumber, sand, gravel and stone delivered on job; price of fir is quoted instead of pine.

Minneapolis quotes on fir instead of pine. Brick, sand and hollow tile delivered. Cement on cars. Gravel and crushed stone quoted at pit. We quote on brown lime per 180-lb. net; white is $1.70 for Kelly Island and $1.60 for Sheboygan. Common labor not organized.

THIS limited price list is published weekly for the purpose of giving current prices on the principal construction materials, and of noting important price changes on the less important materials. Moreover, only the chief cities are quoted.

Valuable suggestions on costs of work can be had by noting actual biddings as reported in our Construction News section.

The first issue of each month carries complete quotations for all construction materials and for the important cities. The last complete list will be found in the issue of March 4, the next on April 1.

Denver quotes on fir instead of pine. Cement "on tracks"; gravel and sand at pit; stone on cars; lime, brick, hollow tile and lumber on job. Tile price is at warehouse. Linseed oil, delivered in wooden bbl. Common lump lime per 180-lb. net.

Atlanta quotes sand, stone and gravel per ton instead of cu.yd. Common lump lime per 180-lb. net.

Dallas quotes lime per 180-lb. bbl. Steel, cement, cast-iron pipe and crushed stone f.o.b. cars, other materials delivered.

San Francisco quotes on Heath tile, size 5½ x 8 x 11½. Prices are all f.o.b. warehouses except C. I. pipe, which is mill price plus freight to railway depot at any terminal. Common lump lime per 180-lb. net. Lumber prices are to dealers in yards at San Francisco, for No. 1 fir, common.

Seattle quotes on Douglas fir (delivered) instead of pine. Lump finishing lime per 180-lb. net. Brick and hollow building tile delivered. Hydrated lime in paper sacks. Sand and gravel at bunkers.

Montreal quotes on pine lumber. Sand, stone, gravel and lump lime per ton. Stone and tile are delivered; sand, gravel, lime and cement on siding; brick f.o.b. plant; steel and pipe at warehouse. Hollow tile per ft. Cement price is in Canadian funds (the Canadian dollar stands at 99.65). Bag charge is 80c. per bbl. Discount of 10c. per bbl. for payment within 20 days from date of shipment. Steel pipe per 100 ft. net; 3½-in., $59.49.

Business Briefs

Call money quoted at 4½@5 per cent, Mar. 23; year ago, 3½ per cent.

Time loans: sixty-ninety days, 4½@4¾; four-six months, 4½@4¾ per cent.

Commercial paper: best names, 4½@4½ per cent; other names, 4¾ per cent.

On March 1, 1926

E. N.-R. Construction Cost Index Number 207.65

E. N.-R. Construction Volume Index Number 187

For Explanation and Details of Indexes Since 1913
See the First Issue of Every Month

CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Apartment, Coral Gables, Fla., Urmey Arms, Inc. had plans prepared, $12,500,000.

Department Store, New York, N. Y., Bloomingdale Bros. having preliminary plans prepared, $7,000,000.

Freight house, Cambridge, Mass., Boston & Maine R.R. plans freight house and transfer system, $5,000,000.

Auditorium and office, Newark, N. J., Arena Amusement Co., Inc. having plans prepared, $4,000,000.

Dredging, West Palm Beach, Fla., Palm Beach Co. plans to deepen Lake Worth Inlet, $3,250,000.

Irrigation project, Dilley, Tex., Frio Co. Irrigation Dist. making surveys, $3,000,000.

Cathedral, Indianapolis, Ind., Cathedral, A. A. Scottish Rite Masons having plans prepared, $2,500,000.

Highway, Massachusetts, State Highway Dept. plans highway from Lynn to Braintree, $2,000,000.

Power plant, Willows, Calif., Glenn-Colusa Irrigation Dist. making plans, $2,000,000.

Hospital, Bedford, Mass., U. S. Veterans Bureau having surveys made, $1,500,000.

High Schools, New Haven, Conn., Bd. Educ. plans 2 Junior High Schools, $1,500,000.

Theatre and store, Baltimore, Md., Stanley-Crandall Co., plans building, $1,500,000.

Paving, Kansas City, Mo., city plans reconstructing and paving street, $1,400,000.

Power house, Lincoln, Neb., Lincoln Public Service Co. plans extensions, $1,350,000.

Viaduct, Kansas City, Mo., City and Kansas City Terminal Ry. Co. making plans, $1,200,000.

Bank, Baltimore, Md., Federal Reserve Bank of Richmond plans building, $1,000,000.

Bids Wanted

Apartment Hotel, Chicago, Ill., H. Zook having plans prepared and takes bids in April or May, $3,500,000.

Contracts

Power plant, Union, Pa., West End Power Co. to Sanderson & Porter, N. Y. C., $6,000,000.

Apartment, Hartford, Conn., G. W. Morris to E. Morris, $1,500,000.

Warehouse, Pittsburgh, Pa., A Kahn let general contracts to S. M. Siessel Co., $1,000,000.

College, Philadelphia, Pa., St. Joseph College, to J. McShane, $1,000,000.

Classified Index of Bids Wanted

Waterworks

Bids close		*See Eng. News-Record*
Mar. 26	East Paterson, N. J.	Feb. 18
Mar. 26	Preston, Md.	Mar. 4
Mar. 26	Wash., D. C.	Mar. 4
Mar. 26	Wash., D. C.	Mar. 11
Mar. 26	Marshfield, Wis.	Mar. 18
Mar. 29	Waite Park, Minn.	Mar. 11
Mar. 29	Mankato, Minn.	Mar. 18
Mar. 29	Oneida Castle (mail Oneida), N. Y.	Mar. 18
Mar. 29	New York City, N. Y.	Mar. 25
Mar. 29	Long Island City, N. Y.	Mar. 25
Mar. 30	Tampa, Fla.	Mar. 11
Mar. 30	Long Island City, N. Y.	Mar. 25
Mar. 30	Morehead City, N. C.	Mar. 25
Mar. 31	Warsaw, Ill.	Mar. 4
Mar. 31	Berea, O.	Mar. 18
Mar. 31	Decatur, Ill.	Mar. 11
Mar. 31	Baltimore, Md.	Mar. 25
Mar. 31	Cleveland, O.	Mar. 25
Mar. 31	Milwaukee, Wis.	Mar. 25
Apr. 3	Arlington, N. J. Adv. Mar. 25.	Mar. 25
Apr. 5	Claysville, Pa.	Mar. 18
Apr. 5	Athens, N. Y. Adv. Mar. 18 and 25.	Mar. 18
Apr. 5	San Andreas, Calif.	Mar. 25
Apr. 5	Norwalk, Conn. Adv. Mar. 25.	Mar. 25
Apr. 5	Biloxi, Mass.	Mar. 25
Apr. 6	St. Louis, Mo.	Mar. 25
Apr. 6	Monroe, N. C.	Mar. 25
Apr. 6	Belle River, Ont.	Mar. 25
Apr. 6	Staunton, Ill.	Mar. 25
Apr. 12	New Britain, Conn. Adv. Mar. 18 and 25.	Mar. 18
Apr. 15	Salisbury, Md. Adv. Mar. 25.	Mar. 25
Apr. 16	Mackinaw, Mich.	Mar. 25
Apr. 30	New Market, Va.	Mar. 25

Sewers

Mar. 26	New York City, N. Y.	Mar. 25
Mar. 30	Bridgeton, N. J.	Mar. 25
Mar. 31	Phila., Pa.	Mar. 18
Mar. 31	Cleveland, O.	Mar. 25
Apr. 1	Akron, O.	Mar. 25
Apr. 2	Kissimmee, Fla. Adv. Mar. 18 and 25.	Mar. 18
Apr. 2	Pontiac, Mich. Adv. Mar. 25.	Mar. 25
Apr. 2	Wauwatosa, Wis.	Mar. 25
Apr. 3	Ashtabula, O.	Mar. 18
Apr. 5	Coatesville, Pa. Adv. Mar. 11 and 25.	Mar. 11
Apr. 5	San Fernando, Calif.	Mar. 25
Apr. 6	St. George, N. Y.	Mar. 25
Apr. 7	Rye, N. Y.	Mar. 11
Apr. 7	San Francisco, Calif.	Mar. 25
Apr. 8	Bromley, Ky. Adv. Mar. 18 and 25.	Mar. 18

Bids close		*See Eng. News-Record*
Apr. 12	Buffalo, N. Y. Adv. Mar. 18 and 25.	Mar. 18
Apr. 21	Antigo, Wis.	Mar. 25

Waste Disposal

Apr. 7	Los Angeles, Calif.	Mar. 25

Bridges

Mar. 26	Dayton, O.	Mar. 18
Mar. 29	San Antonio, Tex.	Mar. 11
Mar. 29	Camden, N. J.	Mar. 11
Mar. 30	Tampa, Fla.	Feb. 25
Mar. 30	Louisiana	Feb. 25
Mar. 30	Poughkeepsie, N. Y. Adv. Mar. 4 to 25.	Mar. 4
Mar. 30	Louisiana	Mar. 4
Mar. 30	North Carolina	Mar. 18
Mar. 31	Illinois	Mar. 18
Mar. 31	Powell, Wyo.	Mar. 25
Mar. 31	Maquoketa, Ia.	Mar. 25
Apr. 1	Jacksonville, Fla. Adv. Mar. 25.	Mar. 25
Apr. 2	Georgia	Mar. 18
Apr. 2	Logan, Ia.	Mar. 25
Apr. 2	Osceola, Ia.	Mar. 25
Apr. 3	Toronto, Ont.	Mar. 25
Apr. 5	San Pablo, Calif.	Mar. 18
Apr. 5	New Jersey Adv. Mar. 18 and 25.	Mar. 18
Apr. 5	Indianapolis, Ind.	Mar. 25
Apr. 6	Gulfport, Miss.	Mar. 18
Apr. 6	Jones, La.	Mar. 4
Apr. 6	St. Louis, Mo.	Mar. 11
Apr. 10	Johnstown, Pa.	Mar. 25
Apr. 12	Indianapolis, Ind.	Mar. 25
Apr. 14	Mississippi	Mar. 25
Apr. 16	Cincinnati, O.	Mar. 25
Apr. 22	North Dakota Adv. Mar. 18 and 25.	Mar. 18

Dams

Apr. 6	New Brunswick, N. J. Adv. Mar. 18 and 25.	Mar. 18
Apr. 16	Livonia, N. Y. Adv. Mar. 25.	Mar. 25

Railways

Apr. 3	Missouri	Mar. 25

Excavation, Drainage, Irrigation, Levees, River and Harbor

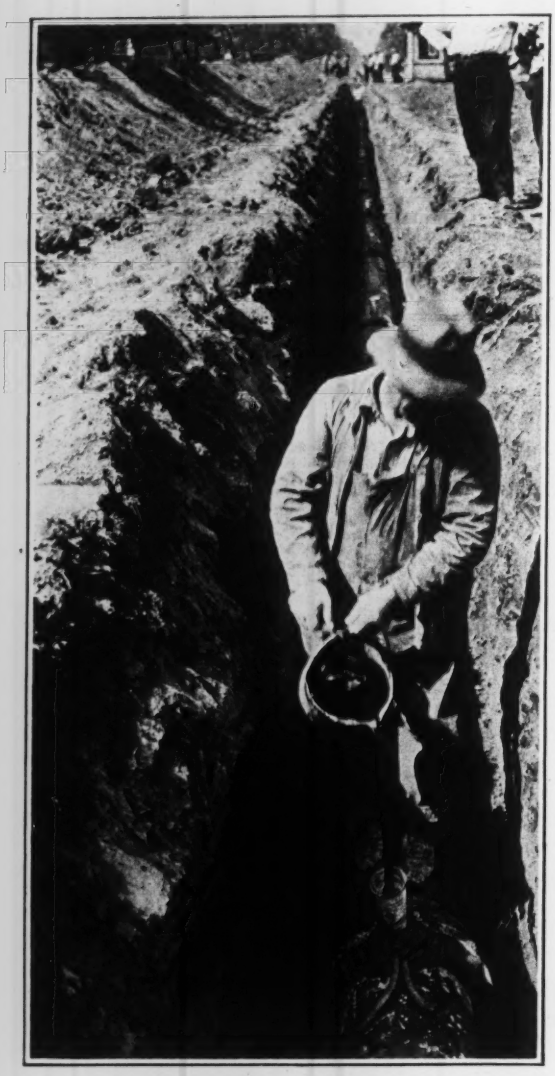
Mar. 31	Darlington, S. C.	Mar. 25
Apr. 2	Woodland, Calif.	Mar. 25
Apr. 5	Peru, Ind.	Mar. 4
Apr. 8	New York City, N. Y. Adv. Mar. 11 to 25.	Mar. 11
Apr. 14	Bradenton, Fla. Adv. Mar. 25.	Mar. 25
Apr. 15	Albany, N. Y. Adv. Mar. 18 and 25.	Mar. 18

Streets and Roads

Bids close		*See Eng. News-Record*
Mar. 26	New York City, N. Y.	Mar. 25
Mar. 27	Lewisville, O.	Mar. 25
Mar. 29	Oskaloosa, Kan.	Mar. 4
Mar. 29	Los Angeles, Calif.	Mar. 18
Mar. 29	Arizona	Mar. 18
Mar. 29	Cedar Rapids, Ia.	Mar. 18
Mar. 29	Milan, Mo.	Mar. 18
Mar. 29	San Diego, Calif.	Mar. 18
Mar. 29	Dayton, O.	Mar. 25
Mar. 30	Ottawa, Kan.	Mar. 4
Mar. 30	Washington	Mar. 18
Mar. 30	St. Louis, Mo.	Mar. 18
Mar. 30	North Carolina	Mar. 18
Mar. 30	North Dakota	Mar. 18
Mar. 30	Maryland	Mar. 18
Mar. 30	New Orleans, La.	Mar. 25
Mar. 30	Trenton, N. J. Adv. Mar. 25.	Mar. 25
Mar. 30	Michigan	Mar. 25
Mar. 30	Connecticut	Mar. 25
Mar. 30	Waukesha, Wis.	Mar. 25
Mar. 30	St. George, N. Y.	Mar. 25
Mar. 30	Tampa, Fla.	Mar. 25
Mar. 30	Chicago, Ill.	Mar. 25
Mar. 30	Rockwell, Ia.	Mar. 25
Mar. 30	Arkansas	Mar. 25
Mar. 30	Anamosa, Ia.	Mar. 25
Mar. 30	St. Paul, Minn.	Mar. 25
Mar. 31	Erie, Kan.	Mar. 4
Mar. 31	North Dakota	Mar. 18
Mar. 31	New Jersey Adv. Mar. 18 and 25.	Mar. 18
Mar. 31	Illinois	Mar. 18
Mar. 31	Knoxville, Tenn.	Mar. 18
Mar. 31	Burlington, Wis.	Mar. 18
Mar. 31	Tabor, N. C.	Mar. 18
Mar. 31	North Dakota	Mar. 18
Mar. 31	Unionville, Mo.	Mar. 18
Mar. 31	Wyoming	Mar. 25
Mar. 31	Pittsburgh, Pa.	Mar. 25
Mar. 31	Johnstown, Pa.	Mar. 25
Mar. 31	Michigan	Mar. 25
Mar. 31	New Orleans, La.	Mar. 25
Mar. 31	Maquoketa, Ia.	Mar. 25
Mar. 31	Baltimore, Md.	Mar. 25
Apr. 1	Oakhurst, N. J. Adv. Mar. 18 and 25.	Mar. 18
Apr. 1	North Dakota	Mar. 18
Apr. 1	Dubuque, Ia.	Mar. 25
Apr. 1	Wisconsin	Mar. 25
Apr. 2	Iola, Kan.	Mar. 11
Apr. 2	North Dakota	Mar. 18
Apr. 2	Georgia	Mar. 18
Apr. 2	Cincinnati, O.	Mar. 25
Apr. 2	Michigan	Mar. 25
Apr. 2	Pontiac, Mich.	Mar. 25
Apr. 2	Logan, Ia.	Mar. 25
Apr. 2	San Antonio, Tex.	Mar. 25
Apr. 2	Wauwatosa, Wis.	Mar. 25
Apr. 3	Toronto, Ont.	Mar. 25
Apr. 3	Wenatchee, Wash.	Mar. 25

See proposal advertising on page 128, Advertising Section

TRADE "LEADITE" MARK
Registered U. S. Pat. Office



Pouring LEADITE Joints on line of 12-in. c. i. bell and spigot water main.

Durable Pipe Joints

The wise man builds for the future. Supply lines and distribution systems are usually permanent installations.

Durability and quality should be the first consideration of the product used for making joints in cast iron bell and spigot water mains.

LEADITE is a good product and the leader in its field, because it has gained and retained the recognition, support and patronage of such a great number of water works men for so many years.

LEADITE has been tested and used for over 30 years, under all pressures and conditions, by water works, railroads, mines, contractors and industrial plants thruout the country.

Thousands of miles of pipe have been laid with LEADITE joints, on all sizes from 4 in. to 60 in. in diameter.

LEADITE takes the drudgery out of pipe laying; saves time, money and labor; makes flexible joints; makes joints which will stand vibration under tracks, over and under bridges; makes joints which resist electrolysis; eliminates large bell holes; reduces trench pumping and other work incidental to caulking—LEADITE requires no caulking.

Every water works man abreast of the times knows about LEADITE. LEADITE is an interesting and familiar topic at water works conventions and wherever water works men congregate.

The up-to-date water works man specifies and uses LEADITE.

LEADITE saves at least 75%.

LEADITE is the pioneer self-caulking material for c. i. pipe

Be Sure It Is LEADITE and Accept No Imitations

THE LEADITE COMPANY, Inc.
1512 Land Title Building, Philadelphia, Pa., U. S. A.

NO CAULKING

Bids close		See Eng. News-Record
Apr.	3 Idaho	Mar. 25
Apr.	5 Coatesville, Pa. Adv. Mar. 11 and 25.	Mar. 11
Apr.	5 Martinez, Calif.	Mar. 18
Apr.	5 San Andreas, Calif.	Mar. 25
Apr.	5 San Mateo, Calif.	Mar. 25
Apr.	5 Arizona	Mar. 25
Apr.	5 Toccoa, Ga.	Mar. 25
Apr.	5 St. Augustine, Fla.	Mar. 25
Apr.	5 Los Angeles, Calif.	Mar. 25
Apr.	5 Elizabeth City, N. C. Adv. Mar. 18 and 25.	Mar. 25
Apr.	6 Auburn, Ind.	Mar. 18
Apr.	6 Newton, Kan.	Mar. 18
Apr.	6 Winona, Miss.	Mar. 11
Apr.	6 Louisiana	Mar. 11
Apr.	6 St. Louis, Mo.	Mar. 18
Apr.	6 Pennsylvania Adv. Mar. 18 and 25.	Mar. 18
Apr.	6 North Dakota	Mar. 18
Apr.	6 Indiana	Mar. 18
Apr.	6 Vincennes, Ind.	Mar. 18
Apr.	6 Gainesville, Fla.	Mar. 25
Apr.	6 Chico, Calif.	Mar. 25
Apr.	6 New Market, N. J.	Mar. 25
Apr.	6 Elizabeth City, N. C. Adv. Mar. 25.	Mar. 25
Apr.	6 Palmetto, Fla.	Mar. 25
Apr.	6 Ventura, Calif.	Mar. 25
Apr.	6 Ely, Minn.	Mar. 25
Apr.	6 Washington	Mar. 25
Apr.	6 Maryland Adv. Mar. 25.	Mar. 25
Apr.	7 Pennsylvania Adv. Mar. 18 and 25.	Mar. 18
Apr.	7 New Jersey Adv. Mar. 25.	Mar. 25
Apr.	7 Grand Rapids, Minn.	Mar. 25
Apr.	7 Holland, Mich.	Mar. 25
Apr.	7 Fayette, Miss.	Mar. 25
Apr.	7 North Dakota	Mar. 25
Apr.	8 Winfield, Kan.	Mar. 11
Apr.	8 North Dakota	Mar. 25
Apr.	9 North Dakota	Mar. 18
Apr.	12 Kentucky	Mar. 11
Apr.	12 Akron, O.	Mar. 11
Apr.	12 Kentucky	Mar. 18
Apr.	12 Keokuk, Ia.	Mar. 25
Apr.	12 California	Mar. 25
Apr.	13 Louisiana	Mar. 18
Apr.	13 St. Louis, Mo.	Mar. 25
Apr.	13 North Dakota	Mar. 25
Apr.	14 North Dakota	Mar. 25
Apr.	14 Florida	Mar. 25
Apr.	14 Delaware Adv. Mar. 25.	Mar. 25
Apr.	15 Birmingham, Ala.	Mar. 18
Apr.	15 Birmingham, Ala.	Mar. 11
Apr.	15 Tarrant City, Ala.	Mar. 18
Apr.	15 North Dakota	Mar. 25
Apr.	15 Louisiana	Mar. 25
Apr.	16 Oswego, Kan.	Mar. 25
Apr.	20 Birmingham, Ala.	Mar. 11
Apr.	20 Lyons, Kan.	Mar. 25
May	1 Birmingham, Ala.	Mar. 25

Buildings—Commercial

Mar. 26	Charlerol, Pa.	Mar. 18
Mar. 29	Chicago, Ill.	Mar. 11
Mar. 29	Phila., Pa.	Mar. 25
Mar. 29	Detroit, Mich.	Mar. 25
Mar. 29	Catonsville (Br. Baltimore), Md.	Mar. 25
Mar. 30	Allentown, Pa.	Mar. 18
Mar. 30	Canton, O.	Mar. 25
Mar. 31	Mobile, Ala.	Mar. 11
Mar. 31	Phila., Pa.	Mar. 25
Apr. 1	Greenville, Miss.	Mar. 18
Apr. 1	Gulfport, Miss.	Mar. 4
Apr. 1	Lakewood (br. Cleveland), O.	Feb. 11
Apr. 1	Moline, Ill.	Jan. 14
Apr. 1	Youngstown, O.	Dec. 31
Apr. 1	Youngstown, O.	Mar. 25
Apr. 5	Mansfield, O.	Mar. 25
Apr. 6	Fresno, Calif.	Mar. 18
Apr. 9	Urbana, Ill.	Mar. 25

Buildings—Industrial

Mar. 29	Milwaukee, Wis.	Mar. 25
Mar. 30	Bristol, R. I.	Mar. 25
Mar. 31	Muskegon, Mich.	Mar. 25
Apr. 1	New York City, N. Y.	Mar. 25
Apr. 8	Rome, N. Y. Adv. Mar. 18 and 25.	Mar. 18

Buildings—Educational, Religious

Mar. 26	Nutley, N. J. (br. Newark).	Mar. 11
Mar. 26	Cliffside Park (mail Cliffside), N. J.	Mar. 11
Mar. 26	Greensburg, Ind	Mar. 18
Mar. 26	Lincoln, Neb.	Mar. 18
Mar. 29	Fowler, Ind.	Mar. 11
Mar. 29	Highland Park, Mich.	Mar. 25
Mar. 29	Middleboro, Mass.	Mar. 25
Mar. 30	Aberdeen, S. D.	Mar. 18
Mar. 30	Corning, N. Y.	Mar. 18
Mar. 30	Ashtabula, O.	Mar. 25
Mar. 31	Los Angeles, Calif.	Mar. 25
Mar. 31	Tebret, Sask.	Mar. 25
Apr. 1	Duluth, Minn.	Mar. 18
Apr. 1	Kingsford Heights, Mich.	Mar. 25
Apr. 1	Baltimore, Md.	Mar. 25
Apr. 5	Whittier, Calif.	Mar. 25
Apr. 5	Evansville, Ind.	Mar. 25
Apr. 6	Hazelton, Pa.	Mar. 18
Apr. 6	Churubusco, Ind.	Mar. 25
Apr. 13	Jacksonville, Fla.	Mar. 25
Apr. 14	Fordson (Detroit P. O.), Mich.	Mar. 4
Apr. 15	Tuscaloosa, Ala.	Mar. 25
Apr. 15	Lawrence, Kan.	Mar. 25

Federal Government Work

Mar. 26	Remodeling — Torrington, Conn.	Mar. 11
Mar. 27	Remodeling—Fort Wayne, Ind.	Mar. 4
Apr. 27	Recreation, etc.—Philadelphia	Mar. 25
Mar. 29	Gates—Denver, Colo.	Mar. 4
Mar. 29	Vestibule—Lorain, O.	Mar. 11
Mar. 30	Cement—Milwaukee, Wis.	Mar. 25
Mar. 31	Remodeling—Lynn, Mass.	Mar. 11
Mar. 31	Barges—St. Louis, Mo. Adv. Mar. 11 and 25.	Mar. 11
Mar. 31	Foundation Pier—Milwaukee, Wis.	Mar. 18
Mar. 31	Sewer—San Diego, Calif.	Mar. 25
Apr. 1	Cruiser, etc.—Wash., D. C.	Feb. 25
Apr. 1	Remodeling—McKeesport, Pa.	Mar. 18
Apr. 2	Driveway — Sheboygan, Wis.	Mar. 18
Apr. 6	Earthwork—Iowa Adv. Mar. 18 and 25.	Mar. 18
Apr. 6	Addition—Abilene, Tex.	Mar. 25
Apr. 12	Dredging — Hartford, Conn. Adv. Mar. 11 to 25.	Mar. 11
Apr. 12	Levee—Memphis, Tenn.	Mar. 25
Apr. 12	Remodeling—Santa Barbara, Calif.	Mar. 25
Apr. 13	Remodeling—Chester, Pa.	Mar. 25
Apr. 15	Earthwork—New Orleans, La.	Mar. 25
Apr. 16	Dredging—Galveston, Tex. Adv. Mar. 18 and 25.	Mar. 18
Apr. 16	Quarantine Station—Mobile, Ala.	Mar. 25
Apr. 20	Turbine, etc.—Nebraska and Wyoming	Mar 18
Apr. 21	Hospital—Wash., D. C. Adv. Mar. 25.	Mar. 25
Apr. 22	Granite—Wash., D. C. Adv. Mar. 25.	Mar. 25
May 5	Dredging—South Boston (sta. Boston), Mass.	Mar. 25

Unclassified

Mar. 26	Wall—Cleveland, O.	Mar. 25
Mar. 29	Lighting System—Elmhurst, Ill.	Mar. 11
Mar. 29	Swimming Pool—Lawrence, Mass.	Mar. 25
Apr. 1	Stable, etc.—Brooklyn, N. Y.	Mar. 25
Apr. 5	Lighting System—Biloxi, Miss.	Mar. 25
Apr. 5	Signal Tower, etc.—New York	Mar. 25
Apr. 7	Sanitary Work, etc.—Ogdensburg, N. Y. Adv. Mar. 18 and 25.	Mar. 18
Apr. 12	Power Plant Equipment—Richmond, Ind.	Mar. 25
Apr. 20	Unloader—New Orleans, La.	Mar. 25

Materials

Mar. 27	Pipe, etc.—Toronto, Ont.	Mar. 18
Mar. 27	Fibre Conduit — Chicago, Ill.	Mar. 25
Mar. 29	Supply Pipe—Vancouver, B. C.	Mar. 25
Mar. 30	Paving Brick—Chicago, Ill.	Mar. 25
Mar. 30	Creosoted Fir and Oak—Chicago, Ill.	Mar. 25
Mar. 30	Limestone Dust, etc. — Bridgeton, N. J.	Mar. 25
Mar. 31	Tar and Asphalt—Clayton, Mo.	Mar. 25
Apr. 1	Portland Cement — Boston, Mass.	Mar. 25
Apr. 2	Timber Piles—Albany, N. Y. Adv. Mar. 18 and 25.	Mar. 18
Apr. 2	Gravel, Cement, etc. — Greenville, Miss.	Mar. 25
Apr. 2	Tar—Cincinnati, O.	Mar. 25
Apr. 6	Lumber—Jones, La.	Mar. 4
Apr. 6	Cement, etc.—Collins, Miss.	Mar. 25
Apr. 7	Cement, etc.—Springfield, Mass.	Mar. 25
Apr. 30	Road Oil—Nashville, Tenn.	Mar. 25

News of New Work

Waterworks

Proposed Work

Mass., Andover—Plans extending mains in various streets. $23,000 appropriated.

Mass., Newton (Ind. br. Boston) — City, Bd. Aldermen, plans 20 in. main on Commonwealth Ave. $52,640 appropriated.

Miss., Biloxi—See "Streets and Roads."

Ind., Elkhart — Making surveys and plans improving waterworks. J. R. Stephenson, waterworks supt. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., consult. engrs.

Ill., Staunton — Voted $50,000 bonds, waterworks improvements, incl. 47,627 ft. 2- to 12-in. c.i mains, 44 fire hydrants, 65 gate valves and boxes, etc. Total $90,000. W. A. Fuller Co., 1917 Ry. Exch. Bldg., St. Louis, Mo., engrs.

Wis., Wausau—Making plans 3 m.g. per day capacity filtration plant. W. G. Kirchaffer, Dean Bldg., Madison, engr.

Ia., Dubuque — Making plans improving waterworks and light improvements. $85,000. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., engrs.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.), according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Kan., Pittsburg—Election Apr. 6, $15,000 bonds, waterworks.

Mo., Marshall—Making preliminary plans water tower, tank, and electric pumping equipment, etc. $20,000.

Mo., Perryville — Making revised plans waterworks. $100,000 bond election in April for same. Burns & McDonnell Eng. Co., 401 Interstate Bldg., Kansas City, engrs.

Mo., Savannah—Defeated $60,000 bonds, impounding reservoir and filtration plant, etc. J. W. Shikles & Co., 708 New York Life Bldg., Kansas City, engrs. Noted Mar. 4.

Tex., Marshall—Election Apr. 17, $50,000 bonds, waterworks improvements. Address P. M. Herndon, city secy.

Okla., Chandler—Plans election $100,000 bonds, improving water supply from wells also main extensions, etc. Benham Eng. Co., Gumbel Bldg., Kansas City, Mo., consult. engrs.

Okla., Clinton—Bd. City Comrs. retained Benham Eng. Co., consult. engrs., Gumbel Bldg., Kansas City, Mo., to make surveys and investigations new water supply, etc. $500,000-$600,000. Noted Mar. 18.

Okla., Okmulgee—Soon takes bids storage dam and 5 mi. pipe line, etc. W. C. Hallock, Room 919, Monadnock Bldg., c/o L. F. Harza, engr. Noted Jan. 14.

Okla., Sparks—Making preliminary plans new waterworks and electric transmission line connecting with high line at Meeker. $25,000. Gantt-Baker Co., 1116 West Main St., Oklahoma City, engrs.

Okla., Sperry—Bd. City Trustees retained Benham Eng. Co., consult. engrs., Gumbel Bldg., Kansas City, Mo., to prepare plans waterworks and sanitary sewer improvements. Noted Jan. 7.

N. M., Roswell—Election Apr. 6, $150,000 bonds, improving waterworks. Burns &

See classified index on bids wanted on page 165

This Solves a "Rush" Problem

Every Architect, Engineer and Contractor Must Sometimes Face

"For roads, streets, footings," says an editorial in *Engineering News-Record,* February 18, p. 266, in commenting on quick-hardening concrete made in *3 days* with standard *Universal* cement, "the *careful* builder can undoubtedly take advantage of the new methods to accelerate his construction operations."

Rush work often is necessary. In such cases you don't want to wait several weeks for concrete to reach the required strength. You do not need to. In *3 days* you can obtain quick-hardening, *strong* concrete with standard *Universal* cement, the same quality *Universal* you have always used, by applying simple methods that not only give you the required strength in *3 days* but also produce concrete which is much better and much stronger forever after.

Brief description of the simple methods for producing this time-saving concrete with standard *Universal* cement furnished on request to

Universal Portland Cement Co.

Chicago—Pittsburgh—Minneapolis—Duluth—Cleveland—New York

Concrete For Permanence

Waterworks (Continued)

McConnell Eng. Co., Interstate Bldg., Kansas City, Mo., engrs. Noted Mar. 5, 1925.

Wash., Everett—Election in May, $260,000 bonds, purchasing Flowing Lake Water Project, incl. 480 m.g. reservoir, outlet dam and 3 mi. pipe line. Noted Nov. 12.

Wash., Shelton—Making plans 750 g.p.m. pump, 50,000 gal. tank or permanent concrete reservoir. $48,000. E. C. Manning, Shelton, engr.

Calif., Burbank—Made plans 350,000 gal. reservoir, 48 ft. wide, 90 ft. long, and 14 ft. deep. T. R. Mini, city clk.

Calif., Healdsburg — Plans to purchase 3,000 ft. 4 in. c.i. pipe, hydrants, valves and fittings. J. W. Hillhouse, city clk.

Calif., Riverside—Plans to purchase 10,000 ft. 6 in. c.i. pipe (to be placed in stock). W. A. Scott, water supt. Noted Mar. 4.

Calif., San Francisco — Making plans high pressure pipe line in Industrial section of "Butchertown." $65,000. M. M. O'Shaughnessy, city engr.

Calif., San Francisco — Making plans mains in new districts, $50,000; also plans to purchase 150 additional fire hydrants for various sections. M. M. O'Shaughnessy, city engr.

Calif., San Luis Obispo — San Luis Obispo Co. Water Works Dist. 2, plans election $35,000 bonds, constructing distributing system, pumps, etc.

Ont., Thamesford—City Council, c/o J. A. Clark, chn., making plans waterworks. $40,000. A. Redfern, 36 Toronto St., Toronto, engr. Noted Jan. 14.

Ont., Thamesford—Making plans c.i. distribution system, valves, hydrants, pumps, reservoir or tank, etc. $25,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Sask., Saskatoon — See "Streets and Roads."

B. C., Vancouver — W. McQueen, city clk., soon takes bids 10,000 ft. 6 in., 5,000 ft. 8 in. and 5,000 ft. 12 in. c.i. water pipe, one hundred 6 in., fifty 8 in. and fifty 12 in. valves. $25,000. C. Brackenridge, city engr.

Bids Desired

Conn., Norwalk—Apr. 5, by Dist. Comrs. 2nd Taxing Dist., City Hall, c.i. pipe, castings valves, etc., for waterworks. N. S. Hill, Jr., 112 East 19th St., New York City, consult. engr.; adv. E. N.-R. Mar. 25. Noted Feb. 18.

N. Y., Long Island City—Mar. 29, by N. J. Hayes, comr., Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains, etc. in Utopia Parkway, 58th Lane, Maryland and 67th Rds., 65th Pl., 14th, Harmon, Olcott, 65th, 95th, 108th, Gardiner, 190th, 191st and 202nd Sts., Astoria, 47th, Crocheron and 45th Aves., here.

N. Y., Long Island City — Mar. 30, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains, etc. in Shore Acres Blvd., Beatrice Pl., 32nd, 81st, Van Zandt and 58th Aves., Dartmouth, Loubet, Pansy, 88th, 93rd, 96th, Redfield and 32nd Sts., here.

N. Y., New York — Mar. 29, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains, etc. in Central Park, Bway., 1st and 3rd Aves., Delancey, Essex, Grand and West 38th Sts.

N. J., Ship Bottom-Beach Arlington — Apr. 3, by E. Cranmer, boro clk., artesian well, pumping station, pumping machinery, or tank and tower, c.i. pipes, valves, etc. W. H. Boardman, 426 Walnut St., Phila., Pa., engr.; adv. E. N.-R. Mar. 25.

Md., Baltimore—Mar. 31, by Bd. Awards, excavating trenches in Western Dist. for Bureau Water Supply. V. B. Siems, City Hall, water engr.

Md., Salisbury — Apr. 15, by Water & Sewer Comn., laying mains, etc., Contr. 16. F. H. Dryden, ch. engr.; adv. E. N.-R. Mar. 25.

Va., New Market — Mar. 30, by G. A. Woods, mayor and Town Council, waterworks improvements, incl. 24,100 ft. 2- to 10-in. c.i. pipe, concrete dam, 60,000 lb. reinforcing, 367 cu.yd. excav., etc., also sewerage system improvements, incl. 22,900 ft. 3 and 8 in. c.i. pipe, 2 sewerage pumps, etc. Amer. Industries Eng. Co., 140 Cedar St., New York City, engrs. Carolina Eng. Co., 917 Johnson Bldg., Charlotte, N. C., associated engrs.

N. C., Monroe—Apr. 6, by V. Funderbuck, mayor and Bd. City Comrs., complete water purification plant with mixing basin, 13,000 lin.ft. 12 and 16 in. c.i. pipe, rein.-con. spillway dam, etc. G. H. Bishop, consult. engr. Carolina Eng. Co., 917 Johnston Bldg., Charlotte, engrs.

N. C., Morehead City—Mar. 30, by Morehead Bluffs, Inc., W. F. Blades, pres., 31,400 ft. 1½- to 8-in. mains, 60,000 gal. elevated tank, pump, etc. Benton & Benton, Wilson, engrs.

Ga., Toccoa—See "Streets and Roads."

Miss., Biloxi — Apr. 5, by Mayor and Comn. Council, 4,640 ft. 6 in. c.i. mains, etc., in Forest Ave. from West Hammond to Bay View Aves.

O., Cleveland — Mar. 31, by Bd. Comrs. Cuyahoga Co., mains in East 172nd St. and Wood Ave., Impvt. 569, to exceed $20,000; also in Lorain and Clague Rds., Impvt. 754, to exceed $40,000. F. Williams, Court House, engr.

Mich., Mackinaw — Apr. 16, by A. N. Buhler, village clk., 9,200 ft. 4- to 8-in. c.i. mains, two 8 in., six 6 in., nine 4 in., and two 3 in. valves, 50,000 gal. elevated steel tank on 85 x 100 ft. steel tower, etc. G. W. Clark, Muskegon, consult. engr.

Ill., Staunton — Apr. 6, at office City Clerk, waterworks improvements, incl. c.i. mains, fire hydrants, gate valves, etc., W. A. Fuller Co., Railway Exch. Bldg., St. Louis, Mo., consult. engrs.; adv. E. N.-R. Mar. 25. Noted Jan. 28.

Wis., Milwaukee — Mar. 31, by J. W. Nicholson, chf. buyer, Central Bd. Purchases, one 54 in., three 48 in., three 42 in., six 36 in., twelve 30 in., and two 20 in. gate valves.

Mo., St. Louis—Apr. 6, by Bd. Pub. Serv., 208 City Hall, constructing brick settings of four 460 hp. boilers, $15,000; also constructing and installing sheet steel breeching in boiler room, $6,000, both for Bissell Point Station. E. E. Wall, dir. This corrects report in Mar. 18 issue.

Ark., Little Rock — See "Contracts Awarded."

Calif., San Andreas — Apr. 5, by Calaveras Co., A. W. Poe, clk., 100,000 gal. rein.-con. tanks, 6,925 ft. double riveted slip joint steel pipe, 3,670 ft. 3 in. galvanized iron screw pipe, 1,950 ft. 6 in. double riveted slip joint steel pipe and 1 pump. Noted Nov. 26.

Ont., Belle River—Apr. 6, by M. Forget, village clk., 3 stage electric centrifugal pump, Tender H; filters and controllers, Tender J; chlorinator, Tender K. $20,000. A. W. Connor & Co., Metropolitan Bldg., Toronto, engrs.

Bids Received

Mass., Holyoke—Water Comrs., Mar. 19, 53,500 ft. 20 in. c.i. pipe for Ashley ponds line, from B. Nicholl & Co., 294 Madison Ave., New York City, $224,460. Noted Mar. 11.

Ill., Chicago—South Park Comrs., 57th St. and Cottage Grove Ave., 3,900 ft. 1 in. lead pipe and 44,000 ft. c.i. pipe, from T. J. Prendergast, 118 North La Salle St., $80,731. Noted Feb. 25.

Wis., Kenosha—City Comn., Mar. 15, 800 tons 6- to 12-in. c.i. pipe and fittings, from Natl. Cast Iron Pipe Co., Tarrant City, Birmingham, Ala., $48.45 and $108.50 per ton respectively.

Wis., Milwaukee — Dept. Pub. Wks., R. Stoelting, comr., Mar. 11, 1 vertical triple expansion crank and flywheel pumping engine, 25 m.g. capacity, in Riverside Pumping Station, from Allis Chalmers Mfg. Co., National Ave., West Allis, $222,800. Noted Feb. 25.

Contracts Awarded

R. I., Pawtucket — Dept. Pub. Wks., Arnolds Mills Reservoir, Contr. 2, to J. J. McHale & Sons, 84 Ferris St., $415,566.

N. Y., Brooklyn—Park Bd., F. P. Gallatin, pres., Arsenal Bldg., Central Park, 5th Ave. and 46th St., New York City, vitr. and c.i. drains at Atlantic Ocean terminus of Ocean Parkway, here, to M. J. O'Hara, 557 3rd St., $21,575. Noted Mar. 18.

N. Y., Long Island City — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Denton Dr., 57th Rd., Anna and 113th Pls., Carhart, Herrick, Lotus and Wilton Aves., Locust, 32nd, 33rd and 92nd Sts., here, to Grippo Contg. Co., 85 Webster Ave., $5,717. Noted Mar. 11.

N. Y., New York — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains, transferring taps, rearranging connections and setting additional valves, etc. in Battery Park, Riverside Dr., River Rd., 5th, 9th, Payson, St. Nicholas, 7th and 12th Aves., Church, Dyckman and East Sts., etc., to Draganette Constr. Co., 1123 Clinton Ave., $43,435. Noted Mar. 18.

N. Y., Potsdam — Municipal Bd., C. E. Haywood, chn., four 2 m.g. per day rein.-con. mechanical filters, clear well, etc. for waterworks, to Shephard Constr. Serv., Inc., 423½ South Salina St., Syracuse, $80,000. Noted Mar. 11.

N. Y., St. George — N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York City, mains in Bloomingdale Rd., Bronx and Johnson Pls., Burnside, Cedar, Geldner, Halpin and Hitchcock Aves., Atlantic, Brabant, and 3rd Sts., here, to Empire Contg. Co., 21 Park Row, New York City, $13,988. Noted Mar. 8.

Pa., Mount Union—Boro. Council, C. R. Gracey, secy., Municipal Bldg., constructing 350 ft. dam, on Carmichael Run, about 7 mi. from here, to Ambursen Constr. Co., Grand Central Terminal, New York City, N. Y. Engrs. est. $250,000. Noted Jan. 14.

Pa., Phila.—Phila. Suburban Water Co., Fox Bldg., replacing solid masonry dam, 1,000 ft. long, and 45 ft. high, intake, sluice gates and supply line to new filtration plant, to Ambursen Constr. Co., Grand Central Terminal, New York City, N. Y., about $200,000. Noted Feb. 18.

Pa., Phila.—Dept. Pub. Wks., Bureau of Water, Contr. 808, to E. T. Roberts, 2622 Columbia St., $695; Contr. 809, to S. Faith Co., Inc., 2427 Penn Ave., $1,446; and Contr. 810, to Dravo-Doyle Co., Schaff Bldg., $46,780. Grand total $48,921. Noted Mar. 11.

Mich., Detroit—Dept. Water Supply, 7.93 mi. 6- to 12-in. c.i. mains in various streets, Contr. 1926-1, and 6.64 mi. Contr. 1926-2, to J. W. Toyne, South Bend, Ind., $25,649 and $21,896 respectively; also 6.93 mi. 6- to 12-in. Contr. 1926-3, to R. D. Baker, 1631 Elmhurst Ave., $21,154. Grand total $68,699. Noted Mar. 18.

Ill., Park Ridge — North Side Waterworks improvements, incl. c.i. pipes, valves, etc., to C. M. Porter Co., 111 West Washington St., Chicago, $245,162.

Wis., Manitowoc—A. H. Zander, city clk., 6,000 ft. 12 in., Class "C" waterpipe, to J. B. Clow & Son, North Talman Ave. and West Lake St., Chicago, Ill., $48.90 per ton.

Minn., Minneapolis — F. S. Gram, city purch. agt., to H. Mueller Mfg. Co., Decatur, Ill., four thousand ¾ in. curb cocks at $1.90 each, two hundred 1 in., $2.20, one hundred ¾ in. inverted $1.40, one hundred 1 in. inverted $1.76, also four thousand ¾ x ¾ in. corporation cocks $0.75, and ¾ x 1 in. $0.95. Noted Mar. 18.

Neb., Ohlowa—J. P. Moor, city clk., to Omaha Steel Co., 4802 Leavenworth St., Omaha, tank and tower $5,628; to McWayne Pipe Co., Chicago, Ill., c.i. pipe at $7,757, and 2 in. pipe $1,234; to Fremont Constr. Co., Fremont, hydrants and valves $1,167, pipe line labor $3,400; to E. C. Archibald, 111 South 25th St., Council Bluffs, Ia., well $1,450, pump $1,500, installing pump and motors $323; to Interstate Machinery & Supply Co., 1006 Douglas St., Omaha, $212. Grand total $22,671. Noted Jan. 28.

Mo., Marshfield — City Clerk complete waterworks and distribution system, to R. McSweeney, Kingsbarde Apartments, Springfield, $49,422. Noted Mar. 4.

Ark., Little Rock—Fourche River Land Co., 213½ West 2nd St., H. F. Buhler, pres., will install waterworks, incl. deep wells, 25,000 gal. tank on tower with engine and pump in keeping with capacity, 3 mi. 2 in. c.i. pipe and 1 mi. 4 in. pipe line, by day labor. Private plans.

Tex., St. Jo—Waterworks, incl. pumps, etc., to Douglas & Davenport, c/o Ward Bldg., Wichita Falls, approximately $34,000. Noted Mar. 11.

Wash., Seattle — Bd. Pub. Wks., foundations for steel standpipe at 38th Ave. S. W., and West Barton St., to J. L. Smith, 304 West 36th St., $15,525; and constructing above standpipe, to Puget Sound Mchy. Depot, 322 1st St., $27,785.

Ore., Bend—Approximately 8 mi. 12- to 16-in. electric arc-welded pipe, to Beall Pipe & Tank Corp., Columbia Blvd. and Denver Ave., Kenton Sta., Portland; trenching and backfilling, etc., to A. D. Kern, Portland.

Ore., Medford—For 159,000 ft. 20- to 24-in. electric arc-welded pipe, to Beall Pipe & Tank Corp., Columbia Blvd. and Denver Ave., Kenton Sta., Portland, trenching, backfilling, etc., to Swartlet Bros., Corvallis.

Calif., Alameda—Sprinkler system, pump, pipe lines, etc. for Municipal Golf Course, to S. Smith Co., 637 Mission St., San Francisco, $24,250. Noted Feb. 25.

B. C., Point Grey — Municipality, one thousand ¾ in., one hundred ¾ in., twenty-five 1 in., six 1½ in., and four 2 in. meters, to Gordon & Belyed, Ltd., 167 Alexander St., Vancouver, $15,407.

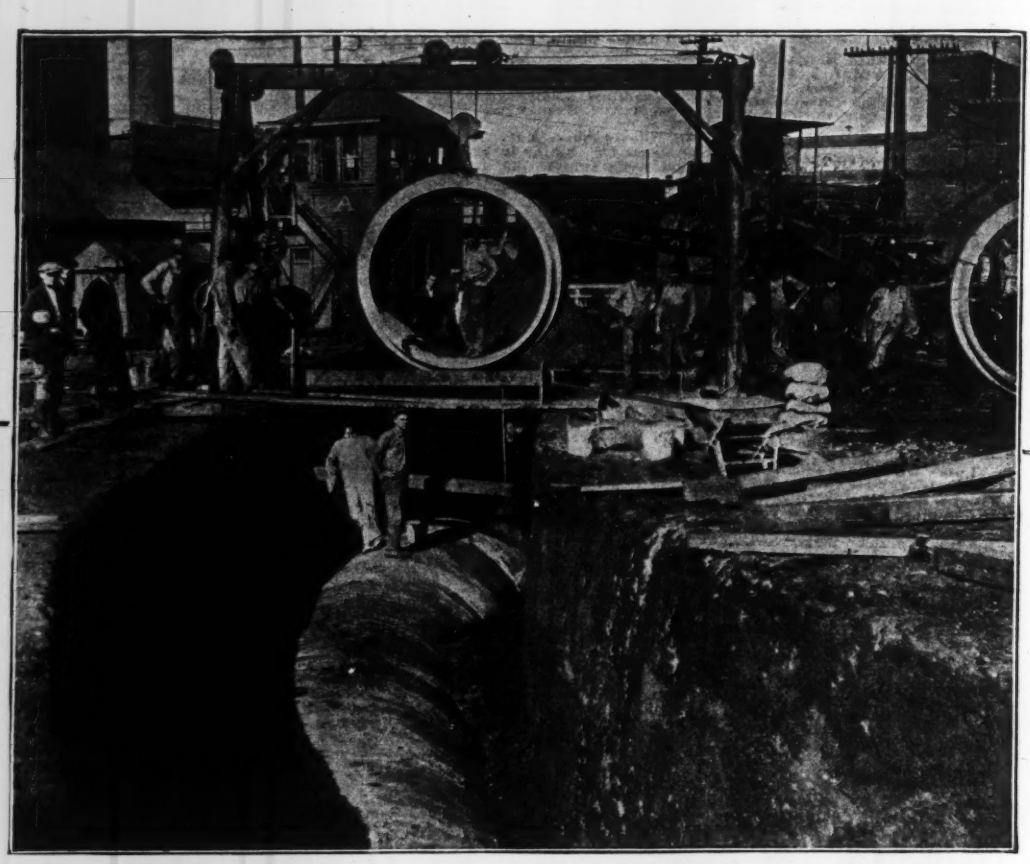
Sewers

Proposed Work

Mass., Boston—Metropolitan Dist. Comn., Ashburton Pl., plans sewers in various streets in Belmont. $75,000. J. R. Rablin, c/o owner, engr.

R. I., Woonsocket — Plans extending sewers in various streets. $150,000. Address City Engineer.

Ga., Toccoa—See "Streets and Roads."



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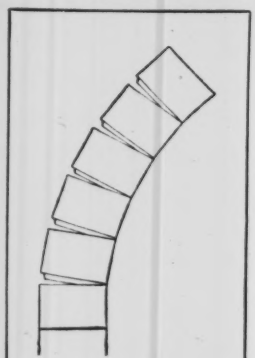
The Most Adaptable Pipe for Sewers



This simple diagram shows how easily a curved sewer may be built with ordinary units of INDEPENDENT Concrete Pipe.

NO other material is used so successfully for such a wide range of sewer requirements, or is laid so economically under difficult conditions, as INDEPENDENT Reinforced Concrete Pipe. Made in sizes ranging from 24 in. to 108 in., it meets every demand for sewer service—size, permanence, strength, capacity and economy.

In laying an INDEPENDENT Sewer no special pipe units are used, nor is any special handling equipment necessary. The joint of each pipe is laid *tight* on the inside of the curve, and is *opened* up on the outside of the curve to the desired radius. Forms are then placed inside and outside the pipes and the V-shaped openings filled with concrete. This simple plan gives a true, regular curve to the sewer, and assures smooth, perfect joints—at a minimum cost for labor and material.

In laying sewers in trenches where water, mud, quicksand, cave-ins, etc. are encountered, the speed with which INDEPENDENT Pipe may be laid, joined, and the trench back-filled, means another big saving of time and money.

Contractors who are interested in PROFITABLE sewer construction, and engineers or public officials who want to build PERMANENT sewers on the most ECONOMICAL basis, are invited to send for estimates and full information. *Write, wire or phone.*

Independent Concrete Pipe Co., 202 N. West St., Indianapolis, Ind.

E.N.R. 3-25

INDEPENDENT
Reinforced Concrete Pipe

Sewers (Continued)

Miss., McComb—Mayor and Bd. Selectmen, retained H. A. Mentz, consult. engr., Hammond, La., to design addition to sewage disposal plant. $40,000.

O., Alliance—Bd., Control takes bids in spring sewer in Jackson, South Freedom, Johnson and Ely Sts. $37,625.

Ill., East St. Louis—Soon takes bids 86,000 ft. 8- to 54-in. vitr. clay, segmental block, brick and concrete sewers in Lansdowne Dist. $800,000. W. McK. Brown, City Hall, engr.

Wis., La Crosse — Made plans and soon takes bids 11,055 ft. 12 in. and 15 in. sewers, etc. in various streets. $40,000. C. C. Congdon, City Hall, engr.

Wis., Manitowoc—A. H. Zander, city clk., plans trunk sewers in various streets on north and south side of city. $125,000. F. Alter, City Hall, engr.

Ia., Boone—Plans sewage disposal plant with auxiliary equipment. $100,000. Currie Eng. Co., Webster City, engrs.

Ia., Winterset — Takes bids in April sewers and sewage treatment plant. $200,000. Burns & McDonnell, 402 Interstate Bldg., Kansas City, Mo., engrs. Noted Jan. 14.

Neb., Hastings—Election Apr. 6, $150,000 bonds, sewage plant, incl. Imhoff tanks, sludge beds, sprinkling filters; outfall sewer line, etc. Henningson Eng. Co., Natl. Bldg., Omaha, engrs.

Neb., Omaha — Making plans sewers in Dists. 952, 953 and 2826.

Tex., Conroe — Election Apr. 8, $55,000 bonds, sanitary sewerage system. Forsgard & Davis, Texas City, engrs.

Tex., Grapevine — Voted $30,000 bonds, complete sewerage system and disposal plant. F. J. Von Zuben, 611 Dan Waggoner Bldg., Ft. Worth, engr. Noted Mar. 11.

Tex., Mansfield — Voted $32,000 bonds, complete sewerage system. Municipal Eng. Co., 1107 Athletic Club Bldg., Dallas, engrs.

Okla., Oklahoma City—Takes bids about Apr. 1, sewerage disposal system. $750,000. B. M. Hart, city engr. Pearse, Greeley & Hansen, Tower Bldg., Chicago, Ill., consult. engrs. Noted Jan. 14.

Okla., Sperry—See "Waterworks."

Calif., Chula Vista—Takes bids in April, sewers in various streets and disposal plant. Burns-McDonnell-Smith, Rives-Strong Bldg., Los Angeles, engrs. Noted Jan. 7.

Calif., Los Angeles—Bd. Pub. Wks. takes bids about Apr. 12, sewer, etc. in Hobart Blvd. between Florence and Denker Aves., and 79th St. between Harvard St. and Denver Ave., etc. to exceed $25,000; vitr. and cement sewer, etc. in Venice, Wilshire and Wilmington Blvds., to exceed $25,000; 8 in. sewer in Dolores St. between Broad and Canal Aves., to exceed $25,000. W. T. Knowlton, Brunswig Bldg., engr.

Calif., Los Angeles—Made plans 18,071 ft. 8- to 18-in. cement and 7,920 ft. 6 in. house sewers, etc., in portion of Centinelo Ave.; also 21,634 ft. 8- to 24-in. cement and 17,148 ft. 6 in. house sewers, etc., in Hyde Park Blvd. and Madden Ave.

Calif., Needles—Made surveys and making plans sewers in various streets. Burns-McDonnell-Smith, Rives-Strong Bldg., Los Angeles, engrs.

Calif., San Bernardino—Making estimates sewage disposal system (Imhoff treatment tanks and sprinkling filters). To exceed $500,000. C. E. Johnson, city engr.

Calif., San Diego—Plans sewers east of 32nd St. and south of Woolman Ave., 95,828 lin.ft. 6- to 16-in. cement, and 180 ft. 6 and 14 in. c.i. pipe, etc. F. A. Rhodes, city engr.

Bids Desired

N. Y., New York—Mar. 26, by W. J. Flynn, acting pres. Bronx Boro, Crotona Park, Tremont and 3rd Aves., storm water drains in Adee Ave., and East 222nd St.; receving basins, etc., on Stell Pl., Waring and Laconia Aves.; sewers in East 222nd, Tiffany, Truxton, East 156th Sts., Randall, Waring and Yates Aves., etc.

N. Y., St. George—Apr. 6, by J. A. Lynch, pres. Richmond Boro, Boro Hall, sewage treatment and pumping plant, west of Ocean Ave., near Oakwood Beach, here.

N. J., Bridgeton — Mar. 30th, by City Council, City Hall, C. P. Corey, clk., approximately 31,200 lin.ft. 8- to 18-in. terra cotta sewer, etc. in various streets. Remington & Vosbury, 509 Cooper St., Camden, engrs.

Va., New Market—See "Waterworks."

O., Dayton—See "Streets and Roads."

O., Lewisville—See "Streets and Roads."

O., Akron—Apr. 1, by W. F. Peters, dir. Pub. Serv., 1,655 ft. 18- to 42-in. vitr. clay trunk sewer on Manning Lake Trunk, (Parkdale St. et al), $35,500; 2,775 ft. 12- to 48-in. in River St. et al, $35,800; 6,600 ft. 8- to 39-in. in Glenwood Ave. et al, $35,900. J. E. Root, Municipal Bldg., engr.

O., Cleveland—Mar. 31, by City, sewers in Bellaire Blvd., Quincy Ave., Pearl Rd., West 58th and 130th Sts. To exceed $25,000. R. Hoffman, City Hall, engr.

Mich., Lincoln Park (mail Detroit)—Mar. 31, by G. A. Dingman, drain com., c. Wayne Co., County Bldg., Detroit, LeBlanc Drain, Ecorse and Taylor Twps., incl. Sect. A, 11,869 lin.ft. 2 bbl. section; Sect. B, 4,706 lin.ft. 2 bbl. section; Sect. C, 4,444 lin.ft. single bbl.; Sect. D, 3,477 ft. 6 ft. diam; Sect. E, 5,828 ft. 6 in. monolithic concrete drain; Sect. F, 1,656 lin.ft. 48 in. circular section; Sect. G, 884 lin.ft. 42 in. circular section; Sect. H, 828 lin.ft. 36 in. section; Sect. I, 2,915 lin.ft. 48 in. circular section; Sect. J, 274 lin.ft. 48 in. circular section; Sect. K, 1,380 lin.ft. 36 in. circular section; Sect. L, 2,838 ft. 48 in. circular section, and Sect. M, 1,655 lin.ft. 6 in. circular section. R. A. Murdock, Transportation Bldg., Detroit, engr.

Mich., Pontiac—Apr. 2, at office H. A. Maurer, city clk., City Hall, N. W. Trunk Sanitary Sewer, Contr. 3. J. R. Pollock, city engr.; adv. E. N.-R. Mar. 25.

Ill., Chicago—See "Streets and Roads."

Wis., Antigo—Apr. 21, by G. O. Palmiter, city clk., 20 x 35 ft. concrete and steel, sewage disposal plant. J. Donohue Eng. Co., 608 North 8th St., Sheboygan, engrs.

Wis., Milwaukee — Mar. 27, by J. H. Fowles, secy. Metropolitan Sewerage Comn., 508 Market St., two 2,500 g.p.m. motor operated float controlled, centrifugal pumps for Mud Creek low level sewage booster station.

Wis., Wauwatosa—Apr. 2, by Bd. Pub. Wks., A. Brigham, secy., sewer and water connections in North Ave. $35,000. J. E. Lowther, city engr. Former contract rescinded. Noted Mar. 4.

Calif., San Fernando — Apr. 5, by Trustees, sewer in Municipal Sewer Dist. 1, 56,152 lin.ft. 8- to 18-in. pre-cast concrete pipe, etc. Black & Veatch, Ferguson Bldg., Los Angeles, engr.

Calif., San Francisco—Apr. 7, by Bd. Pub. Wks., constructing 2,996 ft. 5 ft. 6 in. and 76 lin.ft. 2 ft. 3 in. rein.-con. sewer with portion of invert lined with vitr. brick, etc., in 43rd Ave. (Sunset Dist.), for City and San Francisco Co. $75,000. M. M. O'Shaughnessy, city engr. Noted Mar. 11.

Sask., Saskatoon — See "Streets and Roads."

B. C., South Vancouver—See "Contracts Awarded."

Bids Received

Md., Baltimore — Bd. Awards, Mar. 17, storm drains and sanitary sewers in Dists. H-9 and H-12, Contr. 93, from Chesapeake Constr. Co., 216 St. Paul St., $64,845. Noted Mar. 11.

O., Akron—W. F. Peters, dir. Pub. Serv., Jan. 28, 305,000 tons filtering material. Contr. from Botzum Bros. Co. $549,000. Noted Dec. 24.

O., Cleveland—City, Mar. 10, 425 ft. 3 in. "C" brick and 760 ft. 12- to 24-in. vitr. sewer in Victoria Ave., from George & Ameen Co., 2165 East 33rd St., $8,213; 2,110 ft. 12- to 18-in. vitr. tile in West 130th St., and 4,480 ft. 12- to 18-in. in Woodbury Ave., from Kassouff & Co., 3182 West 25th St., $10,002 and $15,000 respectively; 1,245 ft. 12- to 18-in. vitr. tile in West 150th St. and 1,835 ft. 12- to 18-in. in West 151st St., from F. Phillips Co., Engineers Bldg., $4,511 and $6,289 respectively; 202 ft. brick or rein.-con. sewer in Kingsbury Run, from Coraci Constr. Co., 3414 East 123rd St., $4,421; and 600 ft. 3 "C" brick and 1,565 ft. 12- to 24 in. vitr. tile sewer in East 53rd St., from Manson Co., Engineers Bldg., $14,079.

Mich., Detroit — Dept. Pub. Wks., Mar. 15, 2,253 lin.ft. 10 ft. and 6½ ft. monolithic concrete sewer in tunnel in Seven Mile Rd. Arm, Ashland Ave. Sewer, in Seven Mile Rd. from Gratiot Ave. to point 166 ft. west of Schoenherr Rd., from Walbridge-Aldinger Co., 2356 Penobscot Bldg., $151,686. Noted Mar. 11.

Minn., St. Paul—A. E. Eggert, city purch. agt., Mar. 9, for Maryland-Como Sewerage System, Contr. B approximately 6,000 ft. 12- to 30-in. and 813 ft. 48 in. pipe, etc., from Thornton Bros., 318 Endicott Bldg., $34,777. Noted Mar. 4.

Colo., Denver—Dept. Impvts. & Parks, Mar. 9, 17 mi. 8- to 24-in. vitr. sewer in Barnum Special Sanitary Dist. 1, from Constr. Serv., Inc., Tramway Bldg., $159,231; also 15 mi. Dist. 2, from Dobson & Humphreys, Lincoln, Neb., $124,848. Noted Feb. 11.

Calif., Los Angeles—Storm drain in La Brea Ave. between 1st and 9th Sts., etc., from United Concrete Pipe & Constr. Co., P. O. Box 6, Ventura, $66,000.

Calif., Los Angeles—Constructing 51,397 ft. 6- to 10-in. segmental block sewer in 9th Ave., from M. J. Simonovich, 727 Alpine St., approximately $59,243. Engrs. est. $74,523.

Calif., Los Angeles—For 30,000 ft. 24 in. rein.-con. sewer between Santa Monica and Hyperion outfall, from E. Strand & Co., Vista, $3.72 per ft. Engrs. est. $100,000 plus.

Calif., Yuba City—City Trustees, 70,000 lin.ft. 6- to 16-in. sewer in various streets, from United Concrete Pipe & Constr. Co., Merced, vitr. pipe $59,841, concrete pipe $60,615. Noted Feb. 18.

Contracts Awarded

Pa., Phila.—Dept. Pub. Wks., Bureau of Engineering, to F. DiPasquale, 1215 South 7th St., branch sewer in Aldine St. $7,435, Ryan St. $13,116, Tudor St. $7,463, to J. Venuti, 1812 South 15th St., Almond St. $4,078, Howard St. $3,786, to J. Moss, 1652 Wakeling St., Bridge St. $1,155, to N. Cascetti, Real Estate Trust Bldg., Carpenter Lane, $5,278, Vernon Rd. $11,983, Westview St. $5,013, to Curtis Bros., State Rd. and Unruh St., Cottage St. $3,213, Gillespie St. $3,226, to A. Bonitatibus, 300 West Mt. Pleasant Ave., Crispin St. $3,679, 21st St. $7,751, to A. D. Sandro & Son, 3906 North 5th St., Ditman St. $16,338, 4th St. $15,953, Godfrey Ave. $20,825, Keystone St. $6,279, Tabor Rd. $17,325, to McCoal Constr. Co., 5033 Duffield Ave., Hegerman St. $4,860, Salmon St. $861, Torresdale Ave. $4,745, to H. H. Pizagno, 907 South 13th St., Hilton St. $6,283, 34th St. $7,506, to P. and A. J. Ellis, 4th St., Horrocks St. $11,957, to V. S. Campellone, 812 West Washington St., Victoria St. $3,185; to J. J. McHugh, 1617 Race St., main sewer, in Tacony Creek Park $35,649, and to Mazzola & Marano, 739 South 7th St., Erie Ave. $141,652. Grand total $370,604. Noted Mar. 4.

O., Akron—W. F. Peters, dir. Pub. Serv., fine screens, Contr. 2, and clarifier mechanisms, Contr. 4, to Dorr Co., Inc., $14,490 and $12,080 respectively; sewage meters, Contr. 3, and Kennedy Valves, Contr. 5, to Hardware & Supply Co., 475 South High St., $12,546 and $28,586 respectively; sluice gates, Contr. 6, to Rodney Hunt Machine Co., 79 Lake St., Orange, Mass., $26,518; centrifugal pumps, Contr. 7, to Yeomans Bros., 1436 Dayton St., Chicago, Ill., $6,785; cast iron pipe and fittings, Contr. 9, to U. S. Cast Iron Pipe Co., Burlington, N. J., $67,016. Grand total $168,021. Noted Dec. 24.

O., Cleveland — To Yahya Bros., 3196 West 25th St., 880 ft. 8- to 18-in. vitr. tile sewers in Walbrook Ave. $2,925, 1,386 ft. 8- to 24-in. in Leella Ave. $4,674, 1,385 ft. 8- to 24-in. in Grumsby Ave. $5,584, 935 ft. 8- to 18-in. in Germaine Ave. $2,556, 1,680 ft. 8- to 15-in. in Bradgate Ave. $4,713, and 2,025 ft. 8- to 24-in. in West 152nd St. $7,746; to F. Phillips Co., Engineers Bldg., 260 ft. 12- to 18-in. in West 155th St. $2,640, 1,835 ft. 12- to 18-in. in West 151st St. $6,289, and 1,245 ft. in West 150th St.; to W. McDowell & Son Co., 10319 Miles Ave., 12- to 15-in. in West 146th St. $4,712, 440 ft. West 11th St. $2,886, 1,200 ft. in Kinkelaar Ave. $3,730; to Hanna & Mitchell Constr. Co., Erie Bldg., 780 curb connections in West 145th St. $696; to Langenhan Constr. Co., Marshall Bldg., 380 ft. 3 ft. C and 335 ft. 2 ft. C brick sewer in West 114th St. $14,253, and 555 ft. 12- to 18-in. vitr. tile sewer in Firsby Ave. $3,598.

Ill., Franklin Park — Sewers in Schiller Park Blvd. and other streets, to Pastoret Constr. Co., 506 Sellwood Bldg., Duluth, Minn., $299,121. Engrs. est. $300,000.

Wis., Milwaukee—Metropolitan Sewerage Comn., 508 Market St., to Wenzel & Henoch Constr. Co., 498 27th St., sewer in Roosevelt Dr. addition, 11,550 ft. 42 in. concrete pipe, $24.40 per ft., 1,085 vertical ft. standard manholes $24, 535 vertical ft. drop manholes $50, total $322,305. Noted Mar. 11.

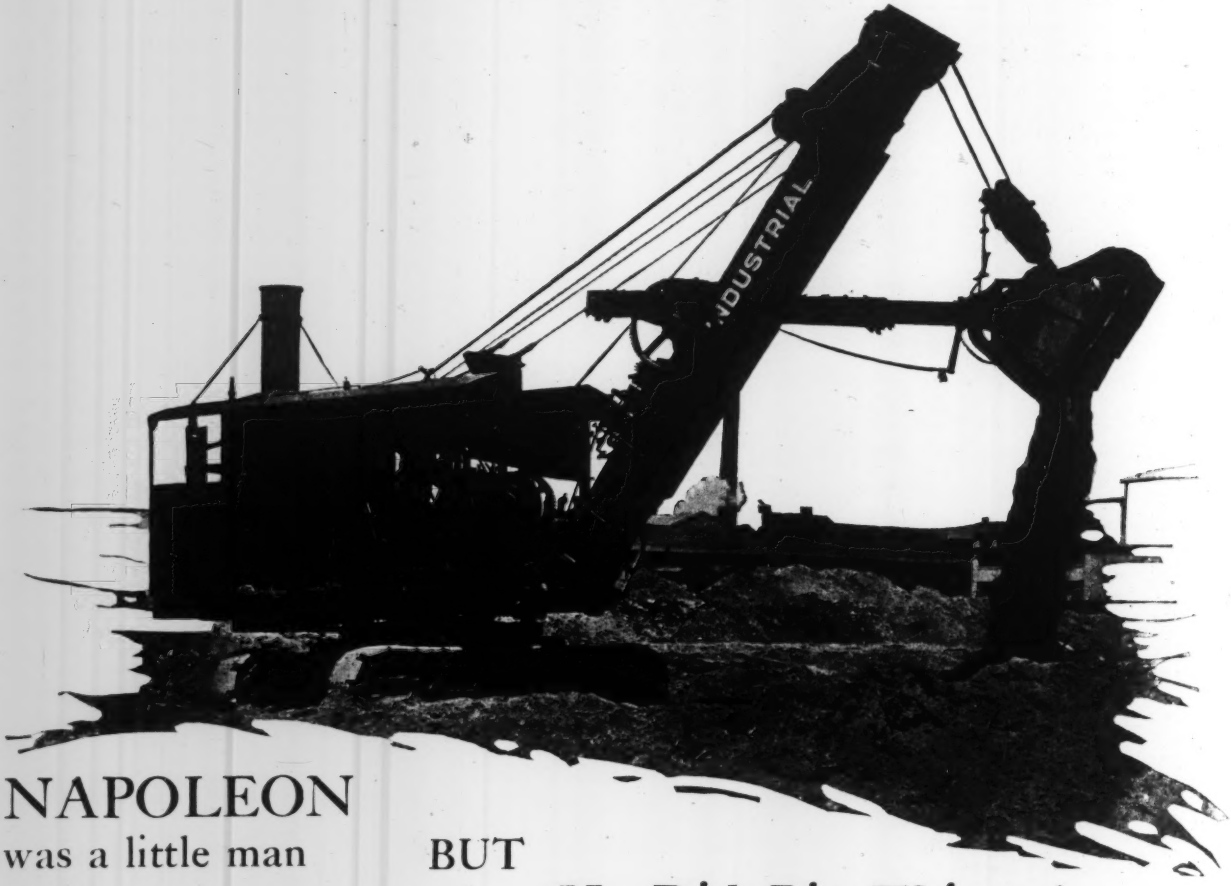
Wis., Milwaukee—Dept. Pub. Wks., Sect. 6, storm sewer in 26th St., to Wenzel & Henoch Constr. Co., 498 27th St., $130,501. Noted Mar. 18.

Mo., University (Sta. St. Louis)—Cyrus Crane Wilmore Organization, Inc., 6,780 ft. 8- to 57-in. vitr. clay and segmental block sewers, 10,500 cu.yd. earth and 1,000 cu.yd. ditch excav., etc., in University Park 2, to Grant & Meinert, c/o Municipal Contractors Assn., Fullerton Bldg., St. Louis. Engrs. est. $42,000.

Calif., Los Angeles — Los Angeles Co. Sanitation Dist. 4, constructing trunk sewer, to J. Chutuk, Wilcox Bldg., $28,252.

Calif., San Carlos—Vitr. sewers in various streets, to H. E. Conner, 100 Duane St., Redwood City, $18,225. Noted Dec. 31.

B. C., Burnaby — Municipality, lateral sewers in various streets, to Harrison & Lamond, 602 Hastings St. W., Vancouver, $18,050; to J. W. Kelly, 510 Boundary Rd., Vancouver, $14,327; and to N. Casco, 1174 Bway. W., Vancouver, $23,825. Grand total $52,202. Noted Feb. 11.



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Sewers (Continued)

B. C., South Vancouver—Will build large number lateral sewers in South Hill Dist., by day labor. T. Brooks, recvr. $112,000.

Waste Disposal

Proposed Work

R. I., Woonsocket — Plans garbage disposal plant. $135,000. Address City Engineer.

Bids Desired

Calif., Los Angeles—Apr. 7, by Bd. Pub. Wks., 200 ton or alternate 400 ton per 12 hr. refuse incinerator. To exceed $300,000.

Contracts Awarded

Md., Baltimore — Bd. Awards, altering and constructing 2 story, 30 x 50 ft., rein.-con. and brick, disposal plant addition, plain foundation, Sisson and 28th Sts., to DeCou & Davis, 9 West Chase St., $101,990. Noted Mar. 11.

Mo., Kansas City—Pan Amer. Feed Co., 615 Ridge Bldg., 4 story, 90 x 126 ft. garbage incinerator, to J. Thompson, Huntzinger Bldg. $225,000 cost plus percentage basis. Noted Dec. 31.

Bridges

Proposed Work

Massachusetts — Cities of Newton and Wellesley plan bridge over Charles River between both cities. $50,000. Engineer not selected.

Mass., Andover — See "Streets and Roads."

Mass., Cambridge (Boston P. O.)—Harvard College plans John W. Weeks Bridge over Charles River. $200,000 donated by members of Hornblower & Weeks, 60 Congress St., Boston. Engineer not selected.

Mass., Lancaster — Commonwealth of Massachusetts, Dept. Pub. Wks., Boston, made plans two 45 ft. span concrete bridge, here. To exceed $25,000. Private plans.

Mass., Medford—Commonwealth of Massachusetts and City of Medford, plan rein.-con. bridge over Mystic River, at Winthrop St. $60,000. F. R. Charnock, City Hall, engr.

Mass., Weymouth (Ind. br. Boston)—See "Streets and Roads."

R. I., Pawtucket—City, Pub. Wks. Dept., I. Gill, comr., making plans widening and improving stone bridge, Exchange St. $350,000. J. R. Worcester & Co., 79 Milk St., Boston, Mass., engr.

N. J., Bridgeboro — State Hy. Comn., Trenton, plans bridge over Rancocas Creek, here. $300,000. W. G. Sloan, highway engr.

Pa. Canonsburg — Comrs. Washington Co. at Court House, Washington, making plans two 50 ft. span bridge, 24 ft. roadway, etc., over Chartiers Creek, here. $25,000. Chaney Eng. Co., Court House, Washington, engrs.

Pa., Knoxville — Plans new bridge, on Georgia Ave. $200,000. Allegheny Co. (Pittsburgh) appropriate 50% of cost.

Mississippi—Black River Bridge Co., H. E. Bovay, pres., Stuttgart, Ark., making preliminary plans rein.-con. and steel toll bridge over Mississippi River, Vicksburg, here; and one at Natchez. Each to exceed $25,000.

Wis., Fond du Lac—J. Hohensee, city clk., plans 132 ft. span rein.-con. bridge, Johnson St. $25,000. C. F. Whitney, 214 Mason St., Milwaukee, engr.

Kan., Eldorado—Butler Co. plans 1 span 150 ft. marsh arch bridge on Federal Aid Project 239-D. E. S. Elcock, Elorado, co. engr.

Neb., Omaha—Plans constructing east end of concrete and steel bridge, at 42nd and Q Sts. $85,000.

Mo., Kansas City—City and Kansas City Terminal Ry. Co., Union Sta., making plans steel and rein.-con. viaduct, on Van Blunt Blvd. $1,200,000. C. Hanna, c/o Terminal Co., engr.

Tex., Brownsville—Gateway Bridge Co., making preliminary plans steel and rein.-con. bridge across Rio Grande River. $100,000. Private plans.

Tex., Cleburne — Making preliminary plans steel and rein.-con. bridge across Buffalo Creek, on West Wardville St. $30,000. C. H. Teesdale, Cleburne, city engr.

Tex., Corpus Christi—Oceanside Toll Rd. Co., c/o S. A. Robertson, plans 20,000 ft. timber and creosoted bridge across Laguna Madre to Flour Bluff. $70,000. Private plans.

Texas—See "Missouri."

Okla., Drumright—State Hy. Dept., Oklahoma City, making preliminary plans 4 span 450 ft. steel truss bridge on concrete piers over Cimmaron River, here. $150,000. J. M. Page, highway engr.

Bids Desired

Pa., Johnstown — Apr. 10, by Johnstown Stony Creek R.R. Co., E. B. Entwisle, ch. engr., single span bridge on concrete abutements over Stony Creek. $50,000.

Delaware—See "Streets and Roads."

Fla., Jacksonville—Apr. 1, by Bd. Comrs. Duval Co., F. Brown, clk., Room 101, Court House, constructing new highway bridge over Pablo Creek, on Atlantic Blvd., Rd. 2, Duval Co. T. B. Carrick, 305 Court House, co. bridge engr.; adv. E. N.-R. Mar. 25.

Mississippi — Apr. 14, by Bd. Supervs. Harrison and Hancock Counties, Chancery Court, Bay St. Louis, steel swing span bridge, incl. 2 mi. approaches, 20 ft. roadway over Ship Channel on Highway 85 between Bay St. Louis and Gulfport, 3,070,-200 ft. creosoted timber, 200,000 ft. creosoted piling, 30,000 lb. reinforcing, also 24,-188 sq.yd. bituminous paving. Address Chancery Clerk, Bay St. Louis, or H. C. Dietzer, Jackson, highway engr.

O., Cincinnati — Apr. 16, by Comrs. Hamilton Co., Court House, 2 span 78 ft. concrete girder bridge, on Red Bank Rd. $25,000. E. A. Gast, Court House, engr. Noted Mar. 11.

Ind., Indianapolis — Apr. 5, by Comrs. Marion Co., Courthouse, 3 span, 152 ft. bridge, 70 ft., on North Meridian and Canal Sts. $66,832.

Ind., Indianapolis—Apr. 12, by Bd. Comrs. Marion Co., constructing and repairing. Bridge 796, $991; Bridge 814, $21,911; Bridge 798, $900; Bridge 816, $9,337; Bridge 819, $1,093; Bridge 820, $911; Bridge 821, $4,152; Bridge 801, $259; Bridge 802, $339; Bridge 803, $1,200; Bridge 806, $1,105; Bridge 815, $312; Bridge 822, $1,284; Bridge 823, $3,173; Bridge 824, 512. Work involves 52,533 lbs. reinforcing. H. Dunn, aud.

Michigan—See "Streets and Roads."

Ia., Logan — Apr. 2, at office Auditor Harrison Co., one 71 x 20 ft. arch bridge, one 70 x 20 and one 80 x 20 ft. pony truss bridges, three I-beam bridges, raising one I-beam bridge, also 48 box culverts and extensions, and 5 circular culverts. T. A. Cherry, Logan, co. engr.

Ia., Maquoketa — Mar. 31, at office Auditor Jackson Co., one 70 x 20 ft pony truss bridge and one 130 x 20 ft. high truss bridge, on Federal Aid Project 143-B. T. E. Tiley, Maquoketa, co. engr.

Minn., Duluth — Apr. 30, by W. H. Tischer, city comr., 150 ft. rein.-con. bridge, 50 ft., 10th St. $75,000. J. Wilson, city engr.

Wyoming—See "Streets and Roads."

Wyo., Powell — Mar. 31, by State Hy. Dept., Cheyenne, 80 ft. steel truss bridge near here, Park Co. $25,000. J. F. Seiler, Cheyenne, ch. engr.

Ark., Osceola—Apr. 2, by Comrs. Sub-Dist. 1 of D. D. 8 and Sub-Dist. 3 of D. D. 9, Mississippi Co., 3,000 ft. timber bridges and trestle, 300 ft. moving steel spans, and 30 cu.yd. culverts. Morgan Eng. Co., Goodwin Institute, Memphis, Tenn., engrs.

Arkansas—See "Streets and Roads."

Tex., Waxahachie — See "Streets and Roads."

Ont., Toronto—Apr. 3, by R. W. Phillips, secy. Toronto & York Roads Comn., 57 Adelaide St., 3 concrete bridges in York Co. $25,000. E. A. James, c/o owner, engr.

Bids Received

Ohio—Dept. Hys. & Pub. Wks., Mar. 19, concrete bridge on Sect. "I" Athens-McArthur Rd., Athens Co., from Merry & Miller, Caldwell, $4,878; rein.-con. bridge over Mill Creek, on Sect. "U" Ohio River Rd., Washington Co., from W. H. Helby & Co., Marietta, $20,757; concrete bridge, Sect. "H" same road, and concrete bridges, etc., on Sect. "H" same road, from Reedy Bros. Warren, $3,780 and $5,841 respectively. Noted Mar. 11.

Tex., Anderson—See "Streets and Roads."

Tex., Boston—See "Streets and Roads."

Tex., Carthage—See "Streets and Roads."

Tex., Dallas—See "Streets and Roads."

Tex., Linden—See "Streets and Roads."

Contracts Awarded

North Carolina—State Hy. Dept., Raleigh, rein.-con. bridges, etc., on Project 635, Gaston Co., to P. S. Minus, Spartanburg, $104,282. Noted Feb. 18.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, bridges on Project 36-C, Shelby Co., to B. Boyd & Co., Hickory, N. C., $65,328; Project 64-A, Obion Co., to W. M. Hill & Sons, Fulton, Ky., $38,002; Project 300-C, Morgan Co., to North Fork Constr. Co., Jackson, Ky., $25,341; Project 311-A and B, Hardin & McNairy Counties, to W. H. Shons Co., Freeport, Ill., $71,503; Project 322-A, McMinn Co., and Project 324, Hamblen Co., to Alay Constr. Co., Bristol, Va., $10,185 and $17,161 respectively; Project 325-A, Davidson Co., to F. E. Fisher, 3rd Ave. N., Nashville, $5,749; and Project 326-A, Sumner Co., to Clayton Paving Co., 44 Noel Blk., Nashville, $40,-486. Grand total $273,755. Noted Feb. 25.

Indiana — J. D. Williams, dir. State Hy. Comn., Indianapolis, two 84 ft. span, steel girder bridge over Pennsylvania R.R. Traction, and two 150 ft. span steel truss bridge over County and Stucker Creek, on State Road 1-D, Scott Co., to Hutchinson Constr. Co., Indianapolis, $105,884. Engrs. est. $129,775. Noted Feb. 25.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, five 66 ft. span concrete girder bridge, incl. temporary road and bridge, on Route 5, Sect. 15-B, Winnebago Co., to Ferguson Constr. Co., 1033 North 2nd St., Rockford, $66,376; one 60 ft. span steel superstructure, incl. repairs to abutments, 42,600 lb. reinforcing, etc., on Route 7, Sect. 8-D, Bureau Co., to McCree & Co., 315 Hackney Bldg., St. Paul, Minn., $4,655; three 35 ft. span concrete girder railroad overhead crossing, on Route 1, Sect. 38-V, Johnson Co., to W. H. Shons Co., 11 South Liberty St., Freeport, $7,986. Grand total $79,017. Noted Nov. 5 and Feb. 11.

Wis., Racine—H. A. Nelson, comr. Pub. Wks., 270 ft. steel girder bridge and concrete approaches, 36 ft., etc., on 6th St., to E. E. Gillen Co., 288 East Water St., Milwaukee, $55,875. Noted Mar. 11.

Kan., McPherson — See "Streets and Roads."

Tex., Anderson—See "Streets and Roads."

Tex., Carthage—See "Streets and Roads."

Tex., San Antonio — City, J. W. Tobin, mayor, City Hall, 83 ft., rein.-con. and steel bridge, 43 ft., across San Antonio River, on Market St., to Pryor & Jeffrey, c/o Builders Exch. Bldg., San Antonio, $36,067. Noted Jan. 27.

Tex., Stephenville — See "Streets and Roads."

Dams

Proposed Work

Mich., Ypsilanti—See "Buildings—Industrial."

Tex., Coleman — See "Buildings — Industrial."

Calif., Willows—See "Buildings—Industrial."

Bids Desired

N. Y., Livonia—Apr. 16, by Bd. Water Comrs., Masonic Bldg., 38 ft. earth and concrete dam, and pipe line. J. P. Wells, 80 East Ave., Rochester, consult. engr.; adv. E. N.-R. Mar. 25.

Bids Received

Calif., Los Angeles — Bd. Supervs. Los Angeles Co., Mar. 15, 165 ft. concrete dam and appurtenant structures, tunnels, spillways, etc. in Sawpit Canyon, 2 mi. north of Monrovia, from Davis-Heller-Pearce, Inc., Stockton, for County Flood Control Dist. $296,905. Noted Jan. 28.

Contracts Awarded

Pa., Mount Union—See "Waterworks."

Pa., Phila.—See "Waterworks."

Railways

Proposed Work

Missouri—Chicago, Rock Island & Pacific R.R. Co., Chicago, Ill., making preliminary plans grading, and 33 mi. new standard gauge track between Trenton and Braymer, here. C. A. Morse, La Salle St. Sta., Chicago, Ill., ch. engr.

Bids Desired

Missouri—Apr. 3, by F. G. Jonah, ch. engr. St. Louis-San Francisco R.R. Co., Frisco Bldg., St. Louis, permanent construction program, incl. concrete piers, abutments, boxes, culverts, etc., on various parts of system. $125,000.

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NATIONAL PAVING BRICK MANUFACTURERS ASSOCIATION, ENGINEERS BLDG., CLEVELAND, OHIO

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

Fla., West Palm Beach—Palm Beach Co. voted $3,250,000 bonds, deepening Lake Worth Inlet. Noted Dec. 24.

Tex., Dilley—Frio Co. Irrigation Dist., making surveys map out site for reservoirs and tests for foundation of dam. When above is completed plans election $3,000,000 bonds, constructing irrigation project, irrigating approximately 50,000 acres. Nagle, Witt & Rollins, Keystone Bldg., Houston, and Santa Fe Bldg., Dallas, engrs. Noted Dec. 24.

Ariz., Benson—Benson Canal Co. making plans lengthening canals, installing pumps, etc., to add 1,000 acres to irrigation project. $30,000 bonds sold. Address Chief Engineer of owner.

Calif., Grass Valley—Nevada Irrigation Dist. making plans 11 mi. Bowman-Spaulding conduit with ½ mi. tunnel, 9 x 9 ft. diam., 3 mi. flume 9½ ft. diam., 7 mi. open canal, 180,000 cu.yd. excav., etc., $750,000; also made plans distributing system, 50 mi. canal, 138,280 cu.yd. rock and 761,410 cu. yd. earth excav., bridges, culverts, etc. F. H. Tibbetts, Alaska Commercial Bldg., San Francisco, engr.

Calif., Merced — Merced Irrigation Dist. plans election $1,000,000 bonds, completing relocation of railroad, and Exchequer Dam, etc. in connection with irrigation project.

Calif., Sacramento—C. S. Luce, P. O. Box 155, making plans irrigating approximately 230 acres, 3,000 ft. earth ditch, 15 x 3 x 2 ft., 1 centrifugal pump, 10 in. 8 cu.ft. capacity, direct connected to 18 hp. electric motor.

Calif., Saugus—E. R. Ruiz, Box 93, plans irrigating approximately 75 acres, open ditches and three 10 in. turbine pumps, Johnson or equal, etc.

Calif., Tracy—M. Bronich, R. D. I., Box 36, making plans irrigating approximately 350 acres, 4,720 ft. earth ditch 25 x 10 x 1½ ft., 1 centrifugal pump, etc. Ohm & Rabb, 517 East Market St., Stockton, engr.

Bids Desired

S. C., Darlington — Mar. 31, by Supervs. High Hill Drainage Dist. Darlington Co., drainage system, 25 mi. open ditches, 400,000 cu.yd. excav., etc. C. Kupfer, Hartsville, secy.

Fla., Bradenton—Apr. 14, by Mayor and City Council, dredging boat basin and making fill for pier and water front improvement. R. K. Van Camp, comr. Pub. Wks.; ad. E. N.-R. Mar. 25.

Calif., Woodland — Apr. 2, by Trustees Reclamation Dist. 2068, c/o A. C. Huston, constructing irrigation laterals, 165,000 cu.yd. excav. F. C. Hermann, Merchants Exch. Bldg., San Francisco, engr.

Contracts Awarded

N. J., Jersey City — Bd. Commerce & Navigation, State House, Trenton, V. Gelineau, dir., dredging from wharf at Leeds Point to Point in Great Bay 600 ft. easterly from Oyster Creek, to Delaware Dredging Co., 139 South 3rd St., Phila., Pa. at $0.32 per cu.yd. Noted Mar. 18.

N. J., Newark—Dept. Pub. Affairs, City Hall, T. L. Raymond, dir., 500,000 cu.yd. dredging and 30,000 cu.yd. rock removal in City Channel, Port Newark Terminal, to P. Sanford Ross, Inc., 277 Washington St., Jersey City, $517,000. Noted Mar. 18.

Calif., Los Angeles—Los Angeles Co., 80,000 yd., dredger fill in section east of Fish Harbor, to F. C. Franks Contg. Co., 260 California St., San Francisco, $0.2975 per yd

Streets and Roads

Proposed Work

N. H., Marlboro—Plans constructing 1.75 mi. highway. $100,000. Cost to be borne by town and state. Dept. Pub. Wks., engr.

Massachusetts—State Hy. Dept., Boston, plans bituminous macadam repaving highway between Lexington and Concord, $70,000; also along North Shore Rd. and Winthrop Ave., to exceed $25,000. W. F. Williams, comr. Dept. Pub. Wks.

Massachusetts—State Hy. Dept., Boston, plans highway from Lynn to Braintree, $2,000,000. J. R. Rablin, Metropolitan Dist. Comn., 1 Ashburton Pl., Boston, engr.

Massachusetts—State Hy. Dept., Boston, plans bituminous macadam paving highway along shore from East Squantum to Shoreham Sts., in Quincy, $50,000; Morton St. in Quincy and Dorchester, $210,000; and highway connecting Stony Brook Reservation with Blue Hill, to exceed $25,000. W. F. Williams, comr. Dept. Pub. Wks.

Mass., Andover—Plans repairing and reconstructing various streets and bridges. $100,000 appropriated.

Mass., Barnstable — Plans constructing new roads. $106,000 appropriated.

Mass., Boston—Plans widening West St., South Boston, to exceed $25,000; widening and reconstructing Brookline Ave., Roxbury Dist., $25,000; laying out and constructing street from Commonwealth Ave. to Ashford St., $25,000 or more. J. A. Rourke, comr. Dept. Pub. Wks.

Mass., Braintree (Ind. br. Boston)—Plans widening various streets. $27,765 appropriated.

Mass., Cambridge (Boston P. O.) — Plans widening and extending James St. to relieve traffic condition in Harvard Sq. To exceed $25,000. Engineer not selected.

Mass., Cambridge (Boston P. O.)—Plans widening Bway.-Main St. at junction, and bituminous macadam repaving Hapshire St. $350,000. Dept. Pub. Wks., engr.

Mass., Fitchburg — City and State Hy. Dept., Boston, plan highways. $213,700 appropriated. Engineer not selected.

Mass., Framingham—Plans reconstructing and extending Union Ave. $27,000 appropriated.

Mass., Hyannis—Plans improving roads in city and outlying districts. $106,000 appropriated. Engineer not selected.

Mass., Lexington — Plans improving various streets. $45,000 appropriated.

Mass., Needham (Ind. br. Boston) — Plans relocating and bituminous macadam widening Neholden St. $25,000.

Mass., Uxbridge—Plans repaving various streets and bridges. $26,517 appropriated. Private plans.

Mass., Waltham (Ind. br. Boston)—Plans widening Main St. $25,000 or more. Private plans.

Mass., West Roxbury (sta. Boston)—Dept. Pub. Wks., Boston, plans widening Oakland and Ashland Sts., here. $25,000 or more. J. A. Rourke, comr.

Mass., Weymouth (Ind. br. Boston) — Plans reconstructing and repairing various streets and bridges. $121,700 appropriated.

R. I., Woonsocket—Plans repaving various streets. $150,000. Address City Engineer.

Conn., Manchester — Takes bids about Mar. 27, concrete curbing and sidewalks on various streets. $35,000. J. F. Bowen, Town Hall, engr.

Conn., Thomaston—Town, R. H. French comr., High St., plans improving Center Park, adding soil, new turf, and shrubbery also curbing and walks, etc. $25,000.

New Jersey—Sussex Co. plans improving 4.5 mi. road from Simpsons Corner to Lafayette Twp. H. Snook, Newton, engr.

Pa., Clearfield—Boro Council takes bids probably Apr. 19, asphalt or concrete paving approximately 1 mi. Weaver, Locust, Pine, 5th, Walnut, Witmer and Front Sts., 18-28 ft. $60,000. E. W. Hess, Murray Bldg., boro engr.

Pa., Dormont—Boro Council, Boro Hall, making plans repaving West Liberty Ave. $73,300. Allegheny Co. (Pittsburgh) appropriates 50% of cost.

Pa., Uniontown — Fayette Co., Court House, making plans constructing Normalville-Connellsville Rd. $225,000. E. L. Clemmer, Court House, co. engr.

Pa., Washington—Washington Co. plans rein.-con. paving, etc., 1.6 mi. Monongahela Pike, 1.5 mi. Canonsburg-Thomas Rd., and 1.6 mi. Beallsville-Zollarsville Rd., 18 ft. $75,000 each. Chaney Eng. Co., Court House, engrs.

W. Va., Beckley—Marsh Fork Dist., Raleigh Co., election Mar. 27, $200,000 bonds, improving roads. W. J. Campbell, Beckley, engr.

North Carolina — State Hy. Dept., Raleigh, plans oil surfacing 10.45 mi. Project 549, Hoke Co., $26,125; and 16.3 mi. Project 515, Caswell Co., $40,750. C. M. Upham, Raleigh, engr.

N. C., Laurinburg—Scotland Co. plans to sell $400,000 bonds, constructing new roads. E. C. Muse, clk.

N. C., Washington—Beaufort Co. plans road from Hunters Bridge to Pantego. $256,000.

Miss., Biloxi—J. A. Swanzy, comr. Pub. Wks., takes bids about June 12, grading, extending waterworks, gas and electric systems, curbing, sidewalks and hard-surfacing various streets in Oak Park Subdivision. $125,000. Hawkins & Madding, Biloxi, engrs.

Tennessee—State Dept. Highways & Pub. Wks., Nashville, plans grading, bridging, etc., 20 mi. Lafollette-Kentucky State Line Rd., Campbell Co.; improving 10 mi. Erin-Johnston City Rd., Unicoi Co.; also grading and probably concrete paving 10 mi. Una-Rutherford Co. line Rd., Davidson Co. C. N. Bass, comr.

Tenn., Winchester—Franklin Co. making surveys improving 9 mi. Sewanee-Sherwood Rd.

O., Alliance—Bd. Control takes bids in spring paving South Seneca St., $70,637; improving East Patterson St., $33,500; surfacing East Bway., $25,000; asphalt on concrete paving Milton St., $70,737, and widening North Union St., $25,800.

O., Alliance — Bd. Control soon takes bids widening and asphalt paving 1 mi. South Liberty Ave., 34 to 40 ft. $36,000-$40,000.

O., Canton—Bd. Control takes bids about Apr. 16, asphalt paving 23rd St. N. W. east of Cleveland Ave., 40 ft. $36,300. W. E. Sarver, City Hall, engr.

O., Cincinnati — Plans concrete curbing, sidewalks, granite paving 2,660 sq.yd. Sycamore St. from 4th to 3rd Sts. $35,086. C. O. Sherrill, City Hall, engr.

O., Cincinnati—Plans concrete curbing, sidewalks, and concrete paving 3,950 sq.yd. Ambrose Ave. from Hamilton Ave. to Lantana Ave. $25,000. C. O. Sherril, City Hall, engr.

O., Cincinnati—Hamilton Co. plans tar bound macadam paving 17,835 sq.yd. Eagle Creek Rd. from Harrison Pk. to Thompson Rd. $54,000. E. A. Gast, Court House, engr.

O., Barberton — Plans grading, curbing, sidewalks, sewers and paving Tuscarawas Ave. $58,671.

O., Portsmouth — Made plans grading, curbing, guttering and vitr. or hard burned brick paving 4,200 ft. Portsmouth St. from Main to South Sts., 32 ft. $53,000. Address City Engineer.

Mich., Detroit—Dept. Pub. Wks. making plans 3½ in. sheet asphalt on 8 in. concrete paving 4,400 sq.yd. Violetlawn Ave., $21,930; 8,200 sq.yd. Goulburn Ave., $40,850; 8,200 sq.yd. Fairport Ave., $40,850; 12,500 sq.yd. Alter Rd., $62,160; and 6,200 sq.yd. Sobieski Ave., $30,890. P. A. Fellows, City Hall, engr.

Mich., Detroit—Plans 3½ in. sheet asphalt on 8 in. concrete paving approximately 20,100 sq.yd. Meyers Rd., $100,480; 6,340 sq. yd. Garvin Ave., $31,690; 1,240 sq.yd. Meadowbrook Ave., $6,240; 7,220 sq.yd. Corbett Ave., $36,080; 2,140 sq.yd. Indiana Ave., $10,690; 3,650 sq.yd. 51st St., $18,260; 4,380 sq.yd. Saratoga Ave., $21,920; 2,800 sq.yd. Morley Ave., $13,910; 7,750 sq.yd. Wilfred Ave., $38,850; 6,750 sq. yd. Birwood Ave., $33,750; 2,140 sq.yd. Smart Ave., $10,720; and 1,990 sq.yd. Freer Ave., $9,940. P. A. Fellows, city engr.

Illinois — Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, rejected bids Feb. 19, 4 ft. widening 1 mi. and concrete paving 17.98 mi. Route 30, Sects. 1, 2, 7 and 8, Peoria Co. F. T. Sheets, highway engr. Noted Feb. 11.

Ill., Cambridge—Plans paving 22 blocks various streets. F. M. Connolly, 428-341 Peoples Trust & Savings Bank Bldg., Galesburg, engr.

Ill., Kirkwood—Warren Co. plans grading and graveling 23 mi. roads in Tompkins Twp., 18 ft. $70,000. W. F. Brownlee, Kirkwood, highway engr.

Wis., Beloit — Soon takes bids various types paving 3.7 mi. 16 streets, 28, 30 and 32 ft. $150,000. G. E. Heebink, City Hall, engr.

Wis., Marinette — S. O. Shea, city clk., made plans various types paving Miller St., Carney and Partridge Aves. $33,000. A. L. Hillis, city engr.

Wis., West Allis—A. L. Wichner, comr. Pub. Wks., soon takes bids paving 3 types incl. concrete on 72,000 sq.yds. 23 streets. W. Darby, City Hall, engr. Noted Jan. 7.

Iowa—State Hy. Dept., Ames, rejected bids Mar. 2, grading 2.74 mi. Primary Road Project 446, Mahaska Co. F. R. White, ch. engr. Noted Feb. 25.

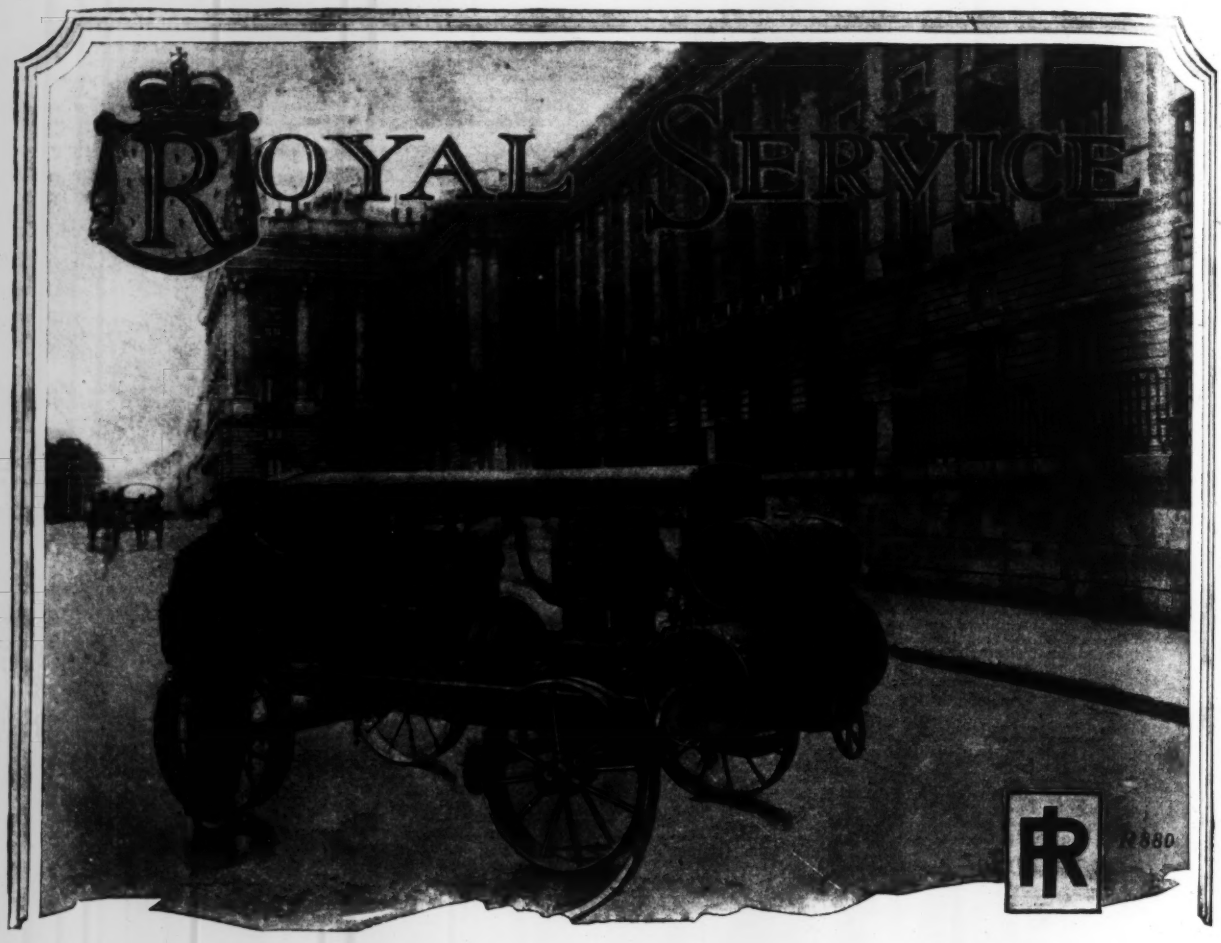
Ia., Burlington—Des Moines Co. election Mar. 29, $800,000 bonds, concrete paving 30 mi. primary roads. F. T. Weber, Burlington, co. aud.

Ia., Dubuque — Plans paving 20 to 25 blocks various streets. $100,000. W. H. Cullin, city engr.

Ia., Keokuk — Takes bids in April or May, Warrenite bitulithic or sheet asphalt on old macadam resurfacing 7,600 sq.yd. South 12th St. $18,700, and 9,700 sq.yd. North 14th St. $20,000. F. W. Maxwell, City Hall, engr.

Ia., Oskaloosa — Plans paving 15 to 20 blocks various streets. $45,000 up. D. B. Russell, city engr.

Ia., Monona—Plans paving 100,000 sq.yd. various streets. $250,000. W. F. Humphrey, city clk.



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63 P-C

Streets and Roads (Continued)

Ia., Newton — Plans paving 36 blocks various streets. $115,000. R. B. Davis, city clk.

Ia., Sigourney—Keokuk Co. election latter part of March, $1,250,000 bonds, improving various roads, incl. Primary Rd. 2. R. C. Fye, Court House, engr.

Minn., Altkin—Making plans paving approximately 10 blocks Minnesota Ave. $35,000. I. Innez, city clk.

Kan., Lyons—Rice Co. plans grading and concrete paving, etc., 2.064 mi. Federal Aid Project 331-A, 18 ft. S. Ainsworth, Lyons, co. engr.

Neb., Omaha — Making plans grading, curbing, paving, etc., various streets in Dists. 2904, 2180, 184, 2821, 2841, 2885, 2729, 2815, 2803, 2788, 2837, 2763, 2744, 2757, 2865, 2783 and 2903. J. P. Hoctor, city clk.

Neb., Omaha — Plans grading, curbing and brick or asphalt paving 3 mi. 52nd St.

S. D., Flandreau—Plans paving 10 or more blocks Main and Wind Sts. $35,000 up. J. R. Coonrod, city aud.

Mo., California — Making preliminary plans grading, curbing and concrete paving 11 blocks various streets. Black & Veatch, 701 Mutual Bldg., Kansas City, engrs.

Mo., Kansas City—Making plans reconstructing and paving various streets. $1,400,000. P. McGeehan, city engr.

Mo., Springfield—Soon takes bids concrete paving, etc., 2,663 sq.yd. Fulton Ave., 9,085 sq.yd. West Division St., 1,827 sq.yd. West McDaniel St., 6,805 sq.yd. Robberson St., 1,969 sq.yd. West Madison St.; concrete sidewalks on 2,947 ft. Browser St. S. R. Fisher, City Hall, engr.

Mo., Stewartsville — Election Mar. 30, $25,000 bonds, concrete paving 9,000 yd. various streets. J. W. Shikles & Co., 708 New York Life Bldg., Kansas City, engrs.

Mo., Sweet Springs—Making plans 7 in. rein.-con. paving 7,000 yd. various streets. $25,000. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, engrs.

Ark., Arkadelphia — Making preliminary plans grading, curbing, and hardsurfacing 60 blocks Paving Dist. 4.

Ark., Harrison — Making preliminary plans grading, curbing and concrete or asphalt paving 17,500 sq.yd. Bower, Spring and Pine Sts., Paving Dist. 3.

Tex., Alice—Jim Wells Co. making plans 1 in. two course rock asphalt on macadam paving 5.93 mi. State Highway 12, Federal Aid Project 424-C, Unit 2, $124,400; 14.3 mi. Highway 12, Federal Aid Project E, Unit 2, $234,000; 16.098 mi. State Highway 12, Federal Aid Project 429-G, Unit 2, $315,700; 13.7 mi. Highway 12, Federal Aid Project 429-F, Unit 2, $282,500, all 18 ft. F. E. Hess, Alice, co. engr.

Tex., Miles—Voted $30,000 bonds paving various streets. Address Mayor.

Oklahoma—State Hy. Dept., Oklahoma City, making preliminary plans grading, paving, etc. 12 mi. Norman-Shawnee Rd., 30 ft., Cleveland Co. $45,000. J. M. Page, highway engr.

Tex., Jourdanton—Plans hard paving 16 blocks various streets. $40,000. Address Mayor.

Okla., Drumright—Plans grading, curbing and concrete paving 7,800 sq.yd. streets in Dist. 5. $31,000. Peckham & James, 225½ West Grand St., Oklahoma City, engrs.

Okla., Durant — Plans grading, curbing and concrete paving 15,350 sq.yd. streets in Dists. 9, 10 and 11. $46,000. L. V. Stinson, Durant, engr.

Okla., Newkirk—Plans grading, curbing and concrete paving 9,640 sq.yd. Cedar St. $31,200. F. B. King, Newkirk, engr.

Wash., Seattle — King Co. takes bids about Apr. 8, concrete paving, etc., 3 mi. North 110th St., 20 ft. $100,000. T. R. Beeman, city engr.

California—State Hy. Dept., Sacramento, making plans widening highway in vicinity of Colma (known as Bottleneck entrance to San Francisco), San Mateo Co., to exceed $300,000; widening, straightening and reducing grades on Dublin Canyon Rd. between Dublin and Hayward, Alameda Co., to exceed $75,000. R. M. Morton, Forum Bldg., Sacramento, highway engr.

Calif., Concord — Making plans paving etc., various streets. $25,000. R. R. Arnold, Courthouse, Martinez, engr.

Calif., Hayward—Made plans improving A St. between Western Pacific R.R. and Southern Pacific R.R. tracks, 177,000 sq.ft. grading and asphaltic concrete paving, 7,300 lin.ft. concrete curbing, and 21,000 sq.ft. concrete guttering, etc. J. B. Holly, 2910 Telegraph Ave., Oakland, engr. Noted Dec. 31.

Calif., Livermore—Voted $15,000 bonds, concrete paving L St. $45,000. Alameda Co. and property owners appropriate $15,000 each toward cost.

Calif., Los Angeles — Plans widening, straightening and extending 8th St. between Figueroa St. and Windsor Blvd. To exceed $300,000.

Calif., Los Angeles—Made plans curbing, walks and 10 in. concrete paving 174,500 sq.ft. east half of Cahuenga Pass Rd.

Calif., Marysville — Yuba Co. making plans improving portions of Arboga and Hammonton Rds. To exceed $25,000. L. B. Crook, Marysville, co. surv.

Calif., Los Angeles — Los Angeles Co. making plans 6½ in. concrete on 5 in. disintegrated granite sub-base paving, etc., portions of Buena Park Rd., Artesia and Bloomfield Aves., etc. To exceed $25,000.

Calif., Petaluma—Defeated $42,000 bonds paving streets connecting with state highway. Noted Feb. 4.

Calif., Ontario — Made plans 4 in. asphaltic concrete paving 120,000 sq.ft. State and Benson Aves. W. E. Nugent, city engr.

Calif., Richmond—Making plans paving, curbing, walks and guttering portions of McLaughlin, Potrero and Stege Aves. To exceed $25,000. E. A. Hoffman, city engr.

Calif., Santa Ana—Made plans curbing, walks, 5 in. concrete paving, etc., 519,612 sq.ft. streets in southwest section of city. N. H. Neff, city engr.

Calif., San Rafael — Marin Co. making plans grading and concrete paving 1.3 mi. Pt. San Pedro Rd. To exceed $25,000. J. C. Oglesby, Cheda Blk., San Rafael, co. surv.

Sask., Saskatoon — Making plans sidewalks, sewers and watermains in various streets. $100,000. G. D. Archibald, city engr.

Bids Desired

Connecticut—Mar. 30, by J. A. Macdonald, comr. State Hy. Dept., Hartford, rein.-con. paving, etc., 28,720 ft. Middletown-New Haven Rd., 1,650 ft. Broad Brook-Ellington Rd. in East Windsor, 19,320 ft. Willimantic-Putnam Rd., Chaplin, 7 in. waterbound macadam paving 4½ mi. South St., Vernon Ave. and Hartford Tolland Turnpike in Vernon and Tolland; grading, etc., 8,380 ft. Boston Post Rd. in Guilford; grade crossing elimination by bridging, etc., Bishop Crossing-Saybrook Junction, in Plainfield and Saybrook.

N. Y., St. George — Mar. 30, by J. A. Lynch, pres. Richmond Boro, Boro Hall, granite block repaving Delafield Pl., and bituminous concrete repaving Morningstar Rd.

N. Y., New York — Mar. 26, by W. J. Flynn, acting pres. Bronx Boro, Crotona Park, Tremont and 3rd Aves., granite block on concrete paving Fordham Landing Rd., Harlem River Terrace, Cedar, East Tremont and Carter Aves., Bronx and East 176th Sts.; bituminous on concrete paving Garden and Miriam Sts.; grading, curbing and sidewalks on West 174th St.; sheet asphalt on concrete paving Bryant, Gerard and Rochambeau Aves., East 158th, 205th and 210th Sts.

New Jersey—Apr. 7, by Bd. Freeholders Cape May Co., Court House, Cape May, rein.-con. paving 40,111 sq.yd. Sect. 3, Seashore Rd. from State Highway Route 14 at Seaville to Palermo. R. F. Smith, Marmora, co. engr.; adv. E. N.-R. Mar. 25.

New Jersey—Apr. 7, Bd. Freeholders Passaic Co., Court House, Paterson, grading, etc. Hewitt-New York State Line Road Project 54, in West Milford Twp. W. Stalter, chn. road com.; adv. E. N.-R. Mar. 25.

N. J., New Market—Apr. 6, by Piscataway Twp. Com., bituminous macadam on old stone paving 1.5 mi. Lakeside and New Market Aves., 16 ft. L. T. Churchill, 319 4th St., Dunellen, engr.

N. J., Trenton—Mar. 30, by Bd. Freeholders Mercer Co., Court House, cold application tar on approximately 50 mi. various roads. H. F. Harris, Court House, co. engr.; adv. E. N.-R. Mar. 25.

Pa., Johnstown—Mar. 31, by S. E. Dickey & Co., engrs., 809 Johnstown Trust Bldg., improving Edward St. and Orange Ave., approximately 3,700 sq.yd. one course rein.-con. paving, 2,650 lin.ft. curbing, 2,700 lin.ft. 6- to 15-in. sewer, for City.

Pa., Pittsburgh—Mar. 31, by Controller Allegheny Co., vitr. brick on concrete paving 14,610 ft. McKeesport-East Pittsburgh Blvd., 18 ft., $150,000; and 7,255 ft. Fox Chapel Rd.-Bridge 2, 6 to 18 ft., $50,000. Dept. Pub. Wks., 519 Smithfield St., co. engr.

Delaware—Apr. 14, by State Hy. Dept., Dover, grading and broken slag surfacing, etc., 2.6 mi. Wyoming-County Farm, Contr. 59; grading and concrete paving, etc., 0.25 mi. Bear Station Crossing Elimination Contr. 58, 3.85 mi. Ginns Corner-Middletown Contr. CN32, and 1.25 mi. Rising Sun-Lebanon, Contr. CK31; and creosoted timber bridge at Collins Mills, Contr. 60, etc.; adv. E. N.-R. Mar. 25.

Md., Baltimore—Mar. 31, by Bd. Awards, grading and concrete paving alleys listed in Contr. 118 $30,000, and 13,450 sq.yd. Contr. 320; sheet asphalt paving 11,740 sq.yd. Contr. 321, and 22,000 sq.yd. Contr. 322; also improving various roads during 1926. S. Purcell, City Hall, highway engr.

Maryland—Apr. 6, by State Roads Comn., Baltimore, concrete paving 1.43 mi. Contr. C1-60 Carroll Co., 0.78 mi. Contr. H-41 Harford Co., 2.35 mi. Contr. D-29 Dorchester Co., and 1.2 mi. Contr. Wo-46 Worcester Co.; also concrete shoulders on 6.5 mi. Contr. A-2-C Allegany Co., 5 mi. Contr. B-20-C Baltimore Co., and 5 mi. Contr. K-1-A Kent Co. J. N. Mackall, chn.; adv. E. N.-R. Mar. 25.

N. C., Elizabeth City—Apr. 5, by A. McCabe, mayor and Bd. Aldermen, curbing, guttering, etc., 67,000 ft. various streets. W. C. Olsen, Masonic Temple Bldg., Raleigh, engr.

N. C., Elizabeth City—Apr. 6, by Comrs. Pasquotank Co., hardsurfacing 2.3 mi. Newland Roadway, Project 7. S. G. Scott, chn.; adv. E. N.-R. Mar. 25.

Ga., Toccoa — Apr. 5, by City Council, grading, curbing, sewers, water mains, guttering and rein.-con., sheet asphalt, bitulithic or asphaltic concrete on concrete paving 20,000 sq.yd. various streets. W. H. Booker, Charlotte, N. C., consult. engr.

Florida—Apr. 14, by State Rd. Dept., Tallahassee, clearing, grubbing, grading, paving, etc., 10.2 mi. road in Bay Co., R. L. Bannerman, Marianna, engr., 5.16 mi. Polk Co., A. W. Kinney, Lakeland, engr., 8.5 mi. Martin and St. Lucie Counties, and 8.73 mi. St. Lucie Co., R. J. Cassie, Ft. Pierce, engr.; also laying 8 in. rock base on 11.82 mi. Hamilton Co., J. H. Dowling, Lake City, engr., and 10.2 mi. Putnam Co., L. B. Thrasher, Ocala, engr.

Fla., Gainesville—Apr. 6, by Bd. Bond Trustees Special Road & Bridge Dist. 1, Alachua Co., Court House, surface treating approximately 156,800 sq.yd. Dist. Rd. 4. H. L. Baker, dist. engr.

Fla., Palmetto—Apr. 6, by Bd. Pub. Wks., L. K. Webb, comr., guttering, curbing, sidewalks, vitr. brick or asphalt block paving portion of Lemon Ave. $30,000.

Fla., Tampa — Mar. 30, by Bd. City Comrs., P. Wall, mayor, 2½ in. asphalt blocks or 2½ in. vitr. brick paving portion of Cleveland and Oregon Aves., Impvts. 134 and 142, $40,000; Cleveland St., Impvt. 135, $35,000; Lynn and Plymouth Sts., Impvts. 144, 145 and 154, $30,000; Euclid Ave., North F and Lime Sts., Impvts. 166, 167 and 170, $35,000; also Alley, Impvt. 201, Grand St., New Orleans, Comanchee, 2nd and Palm Aves., etc., Impvts. 187, 199, 202, 203 and 204, $50,000. R. O. Martin, City Hall, engr.

Fla., St. Augustine — Apr. 5, by City Comn. at office E. Masters, city mgr., improving Oak Pl., Grant, Waldo, Macaris, Prospect, Venancio, Sanchez, Center, Institute, Gabriel, Perpall, Donato, May, Milton, Genoply, Magnolia, Alfred and San Carlos Sts., Hildreth, North Park, South Park, East Park, Ocean, Douglas, Nelmar and Douglas Aves., Bay View and Sylvan Drives, 64,500 sq.yd. grading, paving and surfacing, 50,900 lin.ft. precast curbing and two-course guttering, 51,700 lin.ft. 5 ft. sidewalk, etc. E. Masters, city mgr.

Ala., Birmingham — May 1, by City Comn., asphalt on concrete paving 6 blocks 30th, 31st and 32nd Sts. (Ensley), 40 and 60 ft., $37,100; 6 blocks 26th St. N., 60 ft., $30,150; 5 blocks Ave. N, Oakland Ave., 29th and 30th Sts., 40, 50 and 60 ft., $23,500; 2 blocks 12th St. and 11th Court, 40 ft., $9,000; and 1 block 4th St. S. W., 40 ft., $5,750. A. J. Hawkins, city engr.

Miss., Fayette—Apr. 7, by Bd. Supervs. at office Chancery clk., Jefferson Co., improving 2.3 mi. Federal Aid Project 84-C, 15,771 cu.yd. excav., 7,880 yd. borrow, 4,922 yd. gravel, 30,080 units ½ mi. overhaul, also bridges over 20 ft. span, incl. 9,104 lb. reinforcing, 32,680 lb. structural steel, 13,882 ft. creosoted timber, etc. H. C. Dietzer, Jackson, engr.

Louisiana—Apr. 15, by State Hy. Comn., Baton Rouge, **(F. A. P. means Federal Aid Project)**, graveling 6.71 mi. Campti-Consharta Highway, F. A. P. 158-A Natchitoches Parish, 7.13 mi. Shreveport-Marshall Highway, F. A. P. 160 Caddo Parish, 7.47 mi. Livonia-Opelousas Highway, F. A. P. 169-G St. Landry Parish, and 5.19 mi. Sect. A, and 2.3 mi. Sect. B Monroe-Winnsboro Highway, F. A. P. 165, Richland Parish; also hardsurfacing 3.97 mi. West End-Carrolton Highway, State Project 539, Orleans Parish. W. B. Robert, Reymond Bldg., highway engr.

La., New Orleans—Mar. 30, by Dept. Pub. Finance, Purchasing Div., City Hall, A. J. O'Keefe, comr., grading, curbing, guttering, sidewalks, and paving with various materials South Claiborne Ave. from Louisiana to Washington Aves., South Claiborne Ave. from Washington to Melpomene Aves.; South Claiborne Ave. from Howard Ave.

Streets and Roads (Continued)

to Poydras St. (both sides); South Claiborne Ave. (north side) from Mistletoe St., to Orleans-Jefferson Parish line; South Claiborne Ave. (both sides) from Melpomene to Howard Aves.; St. Philip St. from North Rampart St. to St. Claude Ave.; St. Philip St. from North Galvez to North Hagen Sts., St. Philip St. from St. Claude to North Claiborne Aves.; Canal St. (upper side) from South Jefferson Davis Parkway, to South Anthony St.; Canal St. (upper side) from South Anthony St. to City Park Ave.; Canal St. (lower side) from North Anthony St. to City Park Ave.; Canal St. from North Jefferson Davis Parkway to North Anthony St.; Canal St. (upper side) from South Claiborne Ave. to South Jefferson Davis Parkway; Canal St. (lower side) from North Claiborne Ave. to North Jefferson Davis Parkway; Franklin Ave. (both sides) from Florida Ave. to Bay St. and from Bay to Lavender Sts.; St. Joseph St. from Tchoupotoulas to South Front Sts.; Alvar St. from Charters St. to St. Claude Ave.; Hamilton St. from Palmetto to Last Sts.; Poydras St. (upper side) from South Rocheblave to South Broad Sts. and South Prieur St. from Canal St. to Tulane Ave. Noted Feb. 11.

O., Cincinnati—Apr. 2, by Comrs. Hamilton Co., grading and tar bound macadam paving 10,400 sq.yd. Creek Rd. from Plainfield to Madisonville Rds. $25,000, 14,400 sq.yd. Old Indian Hill Rd. $33,630, 31,200 sq.yd. Plainfield Rd. from Old Creek to Sycamore Rds. $73,000, 20,000 sq.yd. Deerfield Rd. from Cornell to Cincinnati-Zanesville Rds. $48,810, and 16,900 sq.yd. State Rd. from Clough to Nagel Rds. $39,835. E. A. Gast, Courthouse, engr.

O., Dayton—Mar. 29, by Dept. Pub. Serv., curbing, guttering, sewers and concrete paving Sheridan Ave.; sidewalks on Wilmington Ave.; South Riverdale Storm Relief Sewer, and portion of Sanitary Sewer Dist. 4, etc. J. F. Hale, city engr.

O., Lewisville — Mar. 27, by Village Council, grading, sewering and slag surfacing Creamery St.; grading and Kentucky rock asphalt paving North Malaga St. E. D. Keylor, clk.

Michigan—Mar. 30, by State Hy. Dept., at office Comrs. Genesee Co., 613½ Industrial Bldg., Flint, graveling 3.5 mi. Belsay, Irish and Richfield Rds., and 3 mi. Hill, Duffield and Bray Rds., both 15 ft.; concrete paving 3.341 mi. Miller Rd., Sects. 23, 22, 27 and 28, also 6.486 mi. Flushing Rd., both 20 ft. G. C. Dillman, Lansing, highway engr.

Michigan—Mar. 31, by State Hy. Comn., at office Comrs. Allegan Co., Allegan, graveling 5.0123 mi. Assessment Dist. Rd. 11, 2.182 mi. Gull Lake Rd., 3.992 mi. North Watson Rd., and 1.6361 mi. Monterey-Salem Rd.; also Bridge Files 031503 and 031504, two 50 ft. concrete girders. G. C. Dillman, Lansing, highway engr.

Ill. Chicago — Mar. 30, at office Board Local Impvts., Robm 207, City Hall, grading and 7 in. concrete paving various alleys between various streets and roadways, also tile sewers in various alleys. J. J. Sloan, pres.

Wisconsin—Apr. 1, at Division Office 4, Citizens Bank Bldg., Wisconsin Rapids, grading and concrete paving 27,106 sq.yd. Rippon-Green Lake Rd., Green Lake Co., Federal Aid Project 351-B; and 38,501 sq. yd. Waupaca-Veterans Home Rd., Federal Aid Project 442-A and B, Waupaca Co. J. T. Donaghey, Madison, ch. engr.

Wis., Manitowoc — Apr. 2, by A. H. Zander, city clk., rein.-con. and vibrolithic concrete paving 40,000 sq.yd. various streets. F. Alter, City Hall, engr.

Wis., Waukesha—Mar. 30, by C. J. Hahn, highway comr. Waukesha Co., improving Genesee-Mukwonago Rd., 51,532 cu.yd. earth, 300 cu.yd. loose and 50 cu.yd. solid rock excav., 61,452 sq.yd. 18 in. concrete paving, 3,595 lin.ft. standard curbing and guttering, etc. J. T. Donaghey, Madison, ch. engr.

Wis., Wauwatosa—Apr. 2, by A. Brigham, secy. Bd. Pub. Wks., 30,700 ft. rein.-con. pavement with integral curb and gutter on North Ave. between Swan Rd. and Spring Ave. J. E. Lowther, City Hall, engr.

Ia., Anamosa—Mar. 30, by Auditor Jones Co., improving 7.112 mi. Primary Rd., 133,830 cu.yd. earth, 1,075 cu.yd. solid rock and 822 cu.yd. loose rock excav., 139,950 sta.yd. overhaul, etc. $60,000. F. S. Yetter, Anamosa, co. engr.

Ia., Dubuque—Apr. 1, by Auditor Dubuque Co., grading, surfacing, etc., 22.825 mi. Dubuque-Cascade Rd. G. A. Blunt, Dubuque, co. engr.

Ia., Logan — Apr. 2, at office Auditor Harrison Co., grading, etc. 14.047 mi. Missouri Valley-Mountain Rd., Federal Aid Project 138, 329, 606 cu.yd. excav., 210,170 sta.yd. overhaul, etc. T. A. Cherry, Logan, co. engr.

Ia., Marquoketa — Mar. 31, by Auditor Jackson Co., improving 11.791 mi. Marquoketa-Jones Co. line Rd., Primary Rd. 61, 202,792 cu.yd. earth and 10,758 cu.yd. rock excav., 24,100 sta.yd. overhaul, etc. $80,000. F. E. Riley, Marquoketa, co. engr.

Ia., Rockwell City—Mar. 30, by Auditor Calhoun Co., improving 17 mi. various roads, 25,500 cu.yd. gravel 1 mi. haul, 104,625 units ½ mi. overhaul, etc. W. E. McClure, Rockwell City, co. engr.

Minn., Ely—Apr. 6, by A. O. Knutson, city clk., one course concrete paving approximately 8,200 sq.yd. various streets. $25,000.

Minn., Grand Rapids — Apr. 7, by T. Erskine, aud. Itasca Co., grading, etc., 22 mi. Marcell-Craigville Rd. $35,000.

Minn., St. Paul—Mar. 30, by A. E. Eggert, city purch. agt., paving Hamline Ave. between Hewitt and University Aves., Burr St. between Collins and Jenks Sts., and Griggs St. between University Ave. and Bohn St. G. M. Shepard, city engr.

Kan., Lyons—Apr. 20, by Clerk Rice Co., grading and concrete surfacing 21,853 sq. yd. Federal Aid Project 331-A. S. Ainsworth, Lyons, co. engr. Noted Mar. 18.

Kan., Oswego—Apr. 16, by Clerk Labette Co., grading 6.751 mi. Federal Aid Project 214-A, 18 and 22 ft. J. Grady, Oswego, co. engr.

North Dakota — Apr. 7, by State Hy. Dept. and Comrs. Sheridan Co., at Court House, McClusky, gravel surfacing, etc. 11.934 mi. Federal Aid Project 209. C. Christensen, highway comr.

North Dakota—Apr. 8, by State Hy. Dept. and Comrs. Pierce Co., Court House, Rugby, grading, etc. 16 mi. Federal Aid Project 311-A, and 6.011 mi. Federal Aid Project 219-A. C. Christensen, highway comr.

Wyoming—Mar. 31, by State Hy. Dept., Cheyenne, grading and crushed gravel surfacing 15.5 mi. Federal Aid Project 19, Natrona Co., $276,578, Z. E. Sevison, Cheyenne, engr.; surfacing, etc., 7.6 mi. Federal Aid Project 103-A, Park Co., $75,000, R. L. Silver, Basin, engr.; also constructing 7 treated timber bridges and grading, etc., 25.9 mi. Federal Aid Project 191-A, Sweetwater Co., $108,030, G. W. Marks, Rawlins, engr., all 24 ft.

Mo., St. Louis — Apr. 13, by Bd. Pub. Serv., 208 City Hall, shallow granite block paving, etc., 6,055 sq.yd. Walnut St., $54,000; Warrenite bitulithic concrete paving, etc., 53,060 sq.yd. Lindell St. $204,520, and 4,025 sq.yd. Compton St. $33,000; Willite asphalt paving, etc., 1,555 sq.yd. Nashville St., $10,400; asphalt paving 8,285 sq.yd. Cook Ave. from Grand to Vandeventer Aves. $53,000, 1,795 sq.yd. Cook Ave. from Thomas to Grand Aves. $12,120, 1,210 sq. yd. California Ave. $6,600, 2,619 sq.yd. Botanical St. $21,000, 3,900 sq.yd. Plover St. $23,000, and 7,860 sq.yd. Clark St. $52,520; grading 15,685 cu.yd. Grand Ave. $24,520. W. W. Horner, 300 City Hall, engr. Noted Nov. 25.

Arkansas—Mar. 30, by State Hy. Dept., Little Rock, gravel and waterbound macadam surfacing 9.5 mi. Plumberville-Springfield Rd., Federal Aid Project 79, Conway Co., 7,335 cu.yd. earth shoulders, 42,336 cu.yd. fine grading, 34,680 cu.yd. reconstructed and 5,607 cu.yd. waterbound macadam base, 55,367 sq.yd. double bituminous surfacing; also 1 concrete overhead crossing over Missouri Pacific R.R. tracks near Canaan, Federal Aid Project 191-D, Lee Co., 5,306 cu.yd. earth and 195 cu.yd. dry excav., 35,772 lb. reinforcing, 272 ft. concrete piling, etc. R. C. Limerick, ch. engr.

Tex., San Antonio—Taking bids curbing, guttering and hard paving 2 mi. Buena Vista St. from Hamilton to Medina Sts., 45 ft. $100,000. I. Ewig, city engr.

Tex., San Antonio—Apr. 2, by A. C. Pancoast, co. engr., 102 Turner St., ½ in. natural limestone rock asphalt paving 4½ mi. Seguin Rd. from Under Pass to city limits, for Bexar Co., $28,000.

Idaho—Apr. 3, by Commissioner State Hy. Dept., Boise, improving Emmett Branch of Payette State Highway, State Aid Project 95, Gem Co., 62,160 sta.yd. overhaul, 69,770 cu.yd. excav., etc.

Washington—Apr. 6, by State Hy. Dept., Olympia, concrete paving, etc., 3.8 mi. State Rd. 3, Columbia Co., and 7 mi. State Rd. 1, Lewis Co.; grading, etc., 3.5 mi. same road; crushed rock surfacing, etc., 4,500 cu.yd. State Rd. 2, Douglas Co., and 4,000 cu.yd. State Rd. 2, Grant Co.; crushed gravel surfacing, etc., 4,200 cu.yd. State Rd. 10, Chelan Co. J. W. Hoover, ch. engr.

Wash., Wenatchee — Apr. 3, by Comrs. Chelan Co., grading, crushed rock surfacing, etc., 2.6 mi. Wenatchee-Chelan Highway, P. H. 20. J. Duff, Wenatchee, engr.

Calif., Chico—Apr. 6, by I. R. Morrison, city clk., grading, walks, guttering, concrete curbing, 1½ in. on 3½ in. asphaltic concrete surfacing, etc. portions of 6th, 7th, 8th, 9th Sts., etc. To exceed $25,000. R. Witt, city engr.

Calif., Los Angeles — Apr. 5, by Bd. Supervs. Los Angeles Co., improving California Ave., Impvt. 356, 58,846 sq.ft. in guttering, 3,471 sq.ft. guttering, 246 sq.ft. sidewalk, 148,952 sq.ft. 2 in. Willite paving, etc. $79,255. G. Jones, Hall of Records, engr. Noted Mar. 18.

Calif., San Andreas—Apr. 5, by Supervs. Calaveras Co., graveling or crushed rock surfacing 3½ mi. Copperopolis-Milton Rd. W. S. Coulter, San Andreas, co. surv.

Calif., San Mateo—Apr. 5, by E. W. Foster, city clk., grading, curbing, concrete paving, etc., 118,000 sq.ft. El Camino Real.

Calif., Ventura — Apr. 6, by Supervs. Ventura Co., improving Willoughby Rd., 200,000 sq.ft. asphaltic macadam paving, 10,000 cu.yd. excav. C. W. Petit, Ventura, co. surv.

Ont., Toronto—Apr. 3, by A. W. Phillips, secy. Toronto & York Rds. Comn., 57 Adelaide St. E., 7 mi. waterbound macadam paving, 4 mi. bituminous penetration macadam paving, 5 mi. concrete paving various roads in York Co.; supplying crushed stone, gravel and bituminous materials. $365,000. E. A. James, 57 Adelaide St., engr.

Bids Received

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., Mar. 18, laying and relaying sidewalks and curbing when and where directed during year 1926, from Valatia Constr. Co., 15 East 45th St., $5,242, and from J. Meehan & Son, 74 Courtlandt St., $28,295; also granite block on concrete repaving and widening 4th Ave., from W. J. Fitzgerald, 547 West 45th St., $87,976. Noted Mar. 11.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, Mar. 18, from R. B. Wenner, 2313 Walnut St., grading Aramingo St. $3,670, Ditman St. $2,226, Glenlock and Jackson Sts. $2,328, Loney, Loretta and Ripley Sts. $26,112, from Duffin Bros., 3643 North 11th St., Bingham, Comly, Lawndale, Levick and Vankirk Sts. $8,568, from Dewees Bros., 7200 Shelbourne St., Hunting Park Ave., Cayuga, N, Claridge, Dungan, Glendale, Howland, Luzerne, Markland, Maywood, Neilson and Ormond Sts., $62,657, from J. F. Nolan & Sons, 64 Church Lane, 65th Ave., Edna, Fern, Franklin, Front, Gale, Lawrence, Spencer, 2nd, 4th, 9th, 11th and 12th Sts., $41,082, from S. C. Ratzell, Limekiln Pike and Haines St., Lowber, Pastorious, Rodney and Wynsam Sts. $24,389, from J. D. Dorney, 2503 East Norris St., Magee St. $12,028, and Ruth St. $754; from Eastern Asphalt Co., Penn Bldg., asphalt paving (assessment work), Alresford St. $2,695, 16th St. $10,169, asphalt repaving Wharton St. $36,991, 43rd St. $8,692; from Mack Paving & Constr. Co., Nicetown Lane and Luzerne St., asphalt paving Walnut Lane $9,404, 20th St. $14,547; from Barber Asphalt Co., 239 North 30th St., asphalt repaving Haverford St. $163,952; from Acchione & Caruso, 804 South 12th St., redressed granite block repaving Addison, Clover, Filbert, Ludlow, Manning and St. James Sts. $37,223, from Baton Constr. Co., 1713 Sansom St., Spruce St. (track area) $14,105, 60th St. (track area) $25,128, from Municipal Paving Co., 702 Catharine St., Spruce St. (track area) $51,617, 16th St. $31,497, 17th St. $74,518; from Frank & Graham, 5707 North 7th St., curb and footwork (property owners to pay) 3rd Highway Dist. $9,293; from Philadelphia Shack & Tank Wks., 50 North 23rd St., structural steel for Bridge 260 over Pennsylvania R.R. tracks, at 33rd St. $3,085; from J. Meehan & Son, 916 West Dakota St., ten thousand 4 x 4 in. wood blocks $880; from Union Paving Co., 30th and Locust Sts., improving 3,435 sq.yd. Broad St. and Packer Ave. intersection, $17,183; and from Headley Good Roads Co., Franklin Trust Bldg., 150,000 gal. dust layer (road oil), $11,835.

O., Cincinnati — Comrs. Hamilton Co. Mar. 19, tar bound macadam paving 8,600 sq.yd. School Sect. Rd. from Reemlin Rd. to Harrison Pk., from F. Franz & Sons, North Bend, $19,584; 22,600 sq.yd. Muddy Creek Rd. from Bridgetown Pk. to Ebenezer Rd. and 12,700 sq.yd. Linneman Rd. from Muddy Creek to Neeb Rds., from J. A. Nickoson, Sayler Park Station, $54,254 and $28,669 respectively; 8,200 sq.yd. Livingston Rd. from Blue Rock Pk. to Poole Rd., from J. A. Sloan, 2312 Mound Ave., Norwood, $19,932. Noted Mar. 11.

Ill., Grayslake—City Clerk, paving 25,000 sq.yd. Westerfield Pl., Lake St., Seymour, Park and Center Aves., and various roadways, from Buildrite Constr. Co., 634 Ridgeland Ave., Waukegan, $95,327. Noted Feb. 25.

Texas — State Hy. Comn., H. Moseley, chn., Austin, 1½ in. limestone rock asphalt on gravel and waterbound macadam or

Streets and Roads (Continued)

triple bituminous surface treating 14.23 mi. Highway 72, Federal Aid Project 373-B, from C. C. Moore, Temple, $234,054, engrs. est. $221,000; also 11.07 mi. State Highway 72, State Aid Project 320, from P. Schriewer, Seguin, $143,213, engrs. est. $142,000, both in Lavaca Co. Noted Jan. 21.

Tex., Anderson — R. W. Barry, judge Grimes Co., grading and bridging 11.07 mi. State Highway 45, State Aid Project 621, 26 ft., from Thomas & Ratliff, Rogers, $36,-532, engrs. est. $46,000; also 5.08 mi. State Highway 90, State Aid Project 610, 26 ft., from Womack Constr. Co., Sherman, $27,-108, engrs. est. $37,000. Noted Feb. 18.

Tex., Boston — S. I. Robinson, judge Bowie Co., grading, bridging and gravel surfacing 10.75 mi. State Highway 98, State Aid Project 644, 26 ft., from Burgess & Burgess, New Boston, $36,821. Engrs. est. $43,000. Noted Feb. 18.

Tex., Carthage — T. E. Boven, judge Panola Co., clearing, grubbing, bridging and grading 5.09 mi. Highway 8-A, State Aid Project 636, and 6.47 mi. State Highway 8 from Carthage to Martins Creek, from C. Eppes, San Augustine, $32,655 and $59,159 respectively, engrs. est. $35,700 and $68,700 respectively. Noted Feb. 18.

Tex., Henrietta—Clay Co., from Thurber Constr. Co. & Genl. Constr. Co., F. & M. Bank Bldg., Ft. Worth, rein.-con. paving 10.24 mi. State Highway 50, Federal Aid Project 449-B $250,252, 9.25 mi. same road, Federal Aid Project 449-A $230,398, 7.14 mi. State Highway 5, Federal Aid Project 448-A $174,422, and 6.89 mi. same road, Federal Aid Project 448-B $168,561.

Tex., Liberty—Liberty Co. shell surfacing 5.821 mi. and (a) concrete paving (b) 1½ in. bitulithic on concrete paving 16.474 mi. State Highway 3, Federal Aid Project 352, Unit 314, from F. M. McElwrath, Corsicana, (a) $419,220; and from Dodds & Wedegartner, San Benito, (b) $521,855. Engrs. est. $475,000 incl. engineering contingencies.

Tex., Linden — F. E. Hess, Floresville, engr., grading, bridging and gravel surfacing 5.64 mi. Highway 8, Federal Aid Project 457-A, for Cass Co., from P. B. Price & Co., Paris, $59,782. Engrs. est. $60,000.

Tex., Waxahachie — Ellis, Co., grading, bridging, etc. 4.19 mi. State Highway 6, Federal Aid Project 487-C, 26 ft., from Culberhouse & Jones, Sulphur Springs, $20,-366. Noted Dec. 24.

Wash., Seattle—Bd. Pub. Wks., concrete paving, etc., 30,180 sq.yd. Midvale Ave. et al, from R. G. Stevenson, 1327 Northlake Ave., $93,843, engrs. est. $97,759; and 20,-160 sq.yd. Aurora Ave. et al, from McHugh & Coluccio, 517 3rd Ave. N., $56,396, engrs. est. $58,550.

Wash., Seattle—Bd. Pub. Wks., Feb. 26, from Fiorito Bros., 3950 6th St. N. W., improving 32nd Ave. N. W. et al, 2,100 lin.ft. concrete curbing $0.60 per ft., 2,430 lin.ft. concrete guttering $0.25, 160 ft. concrete sidewalks $1.55, 13,200 sq.yd. 8 in. concrete paving $1.80, 30,310 sq.yd. 7 in. concrete paving $1.65, 13,000 cu.yd. sub-grading $0.40, 1,150 sq.yd. asphaltic macadam paving alleys, etc., $1.50, total $103,307. Engrs. est. $121,443.

Calif., Blythe—City Trustees, from Southwest Paving Co., Washington Bldg., Los Angeles, improving Hobsonway, Spring St., etc., 357,005 ft. 1½ in. Durite asphaltic concrete on 3½ in. asphaltic concrete surfacing $0.248 per sq.ft., lighting system $10,250. etc. Noted Mar. 11.

Calif., Los Angeles—Supervs. Los Angeles Co., Mar. 15, from L. J. Turner, 205 East 1st St., improving Woodruff Ave. Impvt. 336, 4,167 cu.yd. excav. $0.475 per cu.yd., 93,688 sq.yd. concrete paving $0.193, etc., total $25,577, engrs. est. $27,344; from H. & P. Constr. Co., Los Angeles, Spencer and Carlyle Sts., Walnut Ave., etc., 1,476 lin.ft. curbing $0.44, 8,703 lin.ft. guttering $0.19, 5,023 lin.ft. sidewalk $0.15, 3,574 cu. yd. earth excav. $0.48, 87,865 sq.ft. 8-6-8 in. concrete paving $0.194, 10,723 sq.ft. 6 in. concrete base $0.178, etc., total $29,873, engrs. est. $32,766.

Calif., San Diego — Common Council, Mar. 15, from D. H. Ryan, 1615 Fern St., improving 26th St. from N St. to Balboa Park, 203,810 sq.ft. 5 in. concrete paving $0.169 per sq.ft., 802 lin.ft. concrete curbing $0.60, 2,593 sq.ft. concrete sidewalks $0.18, etc., total $39,861.

Contracts Awarded

N. Y., Buffalo—Commissioner Pub. Wks., paving and repaving Spring St., to Rock Asphalt Constr. Co., Morgan Bldg., to exceed $300,000. Noted Dec. 3.

N. J., Newark — Repaving Clifford St. from Jefferson St. to Wheeler Point Rd., and Thomas St. from Ave. C to Jefferson St., to Standard Bitulithic Co., 194 Washington Ave., $54,033 and $15,477 respectively; also North 7th St. from 3rd to Bloomfield Aves., to J. B. Gilligan-Casey Co., 972 Broad St., $38,147. Grand total $107,657. Noted Mar. 18.

Pennsylvania—State Hy. Dept., Harrisburg, **(R. means Route and A. means Application)**, to Rockford Constr Co., Rockford, O., improving R. 91, A. 3678, Venango Co., 8,500 cu.yd. excav. at $1 per cu.yd., 31,-847 sq.yd. rein.-con. paving, etc. $2.67, total $109,550; to O B. Bracht, Titusville, R. 354, A. 3605, Beaver Co., 28,300 cu.yd. grading $0.80, and 32,500 sq.yd. rein.-con. paving $2.65, total $136,820; to Sherman & Rhodes, Weissport, A. 3676, Carbon Co., 4,700 cu.yd. excav. $1.50, and 22,664 sq.yd. rein.-con. paving $2.90, total $99,217; to Jones Constr. Co., Salem, O., A. 3325, Beaver Co., 10,200 cu.yd. excav. $1.15, 15,409 sq.yd. rein.-con. paving $2.80, total $78,972; to Gray Bros., Youngstown, O., A. 3592 and 3633, Westmoreland Co., 5,800 cu.yd. excav. $1.05, 18,400 sq.yd. rein.-con. paving $2.85, total $70,380; to Cronin Co, South 18th and Fox Sts., Pittsburgh, A. 3578, Allegheny Co., 16,000 cu.yd. excav. $1, 16,050 sq.yd. rein.-con. paving $3.20, total $84,556; to Ancon Constr. Co., 100 Oakley Rd., Upper Darby, R. 40, Perry Co., 75,932 cu.yd. excav. $0.95, total $131,920; to Schoentag, Inc., Saugerties, N. Y., R. 199, Sect. 3, Schuylkill Co., 106, 312 cu.yd. excav. $0.85, 79,200 sq.yd. rein.-con. paving $3, total $464,211; to Colonial Constr. Co., 901 Arrot Bldg., Pittsburgh, R. 20, Sect. 10, Bradford Co., 76,188 cu.yd. excav. $0.90, 81,878 cu.yd. rein.-con. paving $3.05, total $413,159; to Lord Constr. Co., Hastings, R. 29, Mifflin Co., 57,000 cu.yd. excav. $1, 49,117 sq.yd. rein.-con. paving $3, total $230,773; to Winters Constr. Co., Butler, R. 309, A. 3702, Butler Co., 1,517 cu.yd. excav. $1, 5,150 sq.yd. rein.-con. paving, etc. $3.10, total $23,819; to W H. Murphy & Sons, 2100 State St., Harrisburg, R. 140, A. 3689, Dauphin Co., 21,700 cu.yd. excav. $1, 24,-941 sq.yd. concrete paving, etc. $3, total $114,329; and to M. Bennett & Sons, Indiana, R. 241, Sect. 4, Bradford Co., 200,100 cu.yd. excav. $1, 73,149 sq.yd. rein.-con. paving $3.30, total $543,781. Grand total $2,501,487. Noted Mar. 4 and Mar. 11.

Pa., Phila.—Dept. Pub. Wks., Bureau of Highways, to R. B. Werner, 2313 Walnut St., grading Afton, Faunce and Loney Sts. $9,379, Kingsley St. $802, 12th and Rittner Sts. $1,383, to Belmont Auto Trucking Co., 6118 Pine St., Aldine, Bleigh, Cottage, Erdrick, Faunce, Jackson, Loring, Marple, Napfle, Oakmont, Shelmire, Teesdale, Tudor, Vista and Walker Sts. $90,433, to Morrissey Bros., 4345 North 7th St., Andrews, Georgian, 19th and 20th Sts. $19,-944, to Root Bros., Ridge Ave. and Righter St., Aurania, Bean, Evergreen, Lare, Parker and Summit Sts. $9,266, to Butler & Orlando, 5747 Vine St., Cemetery Ave., Chelwynde, Este, Guyer, Island, Sylmar, 57th, 58th, 65th, 68th, 69th and 74th Sts. $22,556, to J. F. Nolen & Sons, 64 Church Lane, Colonial, Smedley and 16th Sts. $12,-418, to J. H. McKay, 4437 North 9th St., Gates St. $5,681, to T. Conner, 3621 North 5th St., Large and Longshore Sts. $3,382, to McCarrick Bros., 3240 North Fox St., 31st, 34th, Spangler and Westmoreland Sts. $5,253, to L. Dolente, 5122 Master St., 68th St. $12,228; to Barber Asphalt Co., 239 North 30th St., asphalt paving (assessment work) Bowman and Vaux Sts. $316,-112, Sherwood and 69th Sts. $22,079, 21st St. $8,345, Dudley, Hoffman and Wilder Sts. $19,687; to Mack Paving & Constr. Co., Nicetown Lane and Luzerne Sts., asphalt repaving Clarion and Page Sts. $8,466; to Union Paving Co., 30th and Locust Sts., surfacing Terminal and 11th Sts. $139,914; to Eastern Asphalt Co., Penn Bldg., asphalt repaving Susquehanna St. $36,976; to United Paving Co., Real Estate Trust Bldg., redressed granite block repaving (track area) Baltimore St. $10,893, (track area) 16th St. $31,910, to Acchione & Caruso Paving Co., 804 South 12th St., 11th St. $60,825; to Good Roads Equipment Co., 1504 Locust St., repairing Lutz asphalt heaters $7,500; and to West Jersey Sand & Supply Corp., Delaware Ave. and Marlborough St., 2,000 tons Portland cement $17,500. Grand total $606,722. Noted Mar. 18.

Md., Baltimore — Sheet asphalt paving 6,950 sq.yd. Contr. 311, and 12,200 sq.yd. Contr. 310, to Amer. Paving & Contg. Co., Montebello Ave., $32,975 and $32,975; concrete paving 4,160 sq.yd. Contr. 313, and 6,300 sq.yd. Contr. 312, to Arundel Constr. Co., Knickerbocker Bldg., $10,425 and $18,-116. Grand total $94,491. Noted Mar. 18.

Md., Towson — Baltimore Co., Courthouse, concrete paving 1.17 mi. Worthington Ave., and 0.2 mi. Tufton Ave. (Group 2), to H. T. Campbell & Sons Co., Towson, $38,757. Noted Mar. 18.

N. C., Morehead—Morehead Bluffs, Inc., sheet asphalt paving and concrete sidewalks on 22 mi. various streets, to Simmons Constr. Co., Brevard Court, Charlotte. Noted Dec. 17.

Alabama—State Hy. Comn., Montgomery, **(c. e. means engineers estimate)**, top soiling 4 mi. Talladega-Pell City Rd., Talladega Co., and 9.88 mi. Kimbrough-Clark Co. line Rd., Wilcox Co., to Newell Constr. Co., 3828 Ave. A, Birmingham, $34,413 and $66,245 respectively, e. e. $35,000 and $68,-000 respectively; sand clay surfacing 5.25 mi. Gantt-Andulusia Rd., Covington Co., to W. C. McCoy, La Fayette, $24,693, e. e. $25,000; gravel surfacing 9.88 mi. Kimbrough-Clark Co. line Rd., Wilcox Co., to W. A. Taylor, Sylcauga, $56,223, e. e. $57,-000; 2 in. bituminous on 8 in. gravel surfacing 6.75 mi. Wetumpka Highway, Montgomery Co., to R. G. Lassiter, Montgomery, $142,116, e. e. $145,000, all above 18 ft. Grand total $323,690. Noted Feb. 11 and Mar. 4.

Miss., Rosedale — For 6 in. concrete paving 44,986 sq.yd. various streets, to C. E. Philpott, Pine Bluff, Ark., $86,000. Noted Feb. 18.

O., Cleveland — Stone sidewalks in Northerly, Southerly, Westerly and West Park Dists., to Ohio Quarries Co., Union Trust Bldg., $109,906. Noted Feb. 18.

Ind., Indianapolis — Bd. Comrs. Marion Co., Courthouse, improving 46th St. in Washington Twp., 11,700 cu.yd. earth excav., 11,538 sq.yd. concrete paving, etc., to Hutchinson Constr. Co., 415 Guaranty Bldg., $33,850. Engrs. est. $34,150. Noted Feb. 18.

Michigan — Jackson Co., graveling 1.75 mi. road in Blackman Twp. and 2.6 mi. road in Concord Twp., to Kline Bros., Mendon, $16,207; also 2 mi. in Rives Twp. and 3.03 mi. in Spring Arbor and Sandstone Twps., to Hudson & Coons, East Lansing, $15,976. Noted Mar. 18.

Illinois—Dept. Pub. Wks. & Buildings, Div. Highways, Springfield, concrete surfacing 5.08 mi. Route 1, Sect. 38, Johnson Co., to W. Loughs & Son, Marion, $96,240, 10.6 mi. Route 1, Sects. 39 and 40, Massac Co., incl. 3.94 mi. gravel surfacing, to Mitchell Constr. Co., Marion, $114,028; widening Route 3, Sect. 50, village of Whitehall, Greene Co., to Devine Constr. Co., Watseka, $25,967. Grand total $236,-235. Noted Jan. 14 and Mar. 4.

Ill., Kewanee—For 100,000 gal. road oil on various streets, to Independent Oil Co., Kewanee, at $0.0534 per gal.

Wis., Chilton—A. J. Pfeffer, city clk., 2 course concrete paving various streets, to Franz Radloff Co., Plymouth, $37,341. Noted Mar. 18.

Wis., Kenosha—C. M. Osborn, city mgr., paving various streets, to Bryant Paving Co., 807 Blackhawk Bldg., Waterloo, Ia., asphaltic concrete $54,184, rein.-con. $103,-749, and sheet asphalt $144,854. Grand total $302,787. Noted Mar. 18.

Wis., Milwaukee—Dept. Pub. Wks., concrete paving 5 alleys, to Kroening Constr. Co., 39th Ave. and Mitchell St., $21,175; 4 alleys, to N. Harris, 417 Juneau Pl., $11,-363; and 8 alleys, to Tex Constr. Co., 446 68th Ave., $27,401. Grand total $59,939.

Wis., Milwaukee—Dept. Pub. Wks., concrete paving 14 alleys, to Parkinson Constr. Co., 422 27th St., $31,604; 1 alley, to Milwaukee General Constr. Co., 427 Mitchell St., $637; 1 alley, to Kroening Constr. Co., 39th Ave. and Mitchell St., $2,258; and 1 alley, to J. C. Bluhm & Son, 1298 Achilles Pl., $6,437. Grand total $40,936. Noted Feb. 25.

Iowa—State Hy. Dept., Ames, **(F. A. P. means Federal Aid Project and P. R. P. means Primary Road Project)**, grading 7.83 mi. F. A. P. 197, Allamakee Co., to J. C. Parquette, 314 Southeast 5th St., Des Moines, $25,222, 3.33 mi. F. A. P. 44-B, E and F, Cass Co., to C. Nelson, Omaha, Neb., $20,433, and 3.13 mi. P. R. P. 313-D, Clark Co., to J. H. Miller & Sons, Monroe, $19,410; gravel surfacing 7.163 mi. F. A. P. 179-A, B and C, Guthrie Co., to M. E. Hendrick, Scranton, $5,616, and 9.44 mi. F. A. P. 86, Jones Co., to Interstate Constr. Co., Swea City, $19,192. Grand total $89,-873. Noted Feb. 25.

Ia., Waukon — Allamakee Co., to J. C. Parquette Constr. Co., Southwest 15th and Market Sts., Des Moines, improving roads, 84,598 cu.yd. excav. at $0.273 per cu.yd., 990 cu.yd. excav. $0.35, 704 ft. 15 in. culvert labor $0.60, 176 ft. 18 in. $0.70, and 74 ft. 24 in. $1.

Minn., St. Paul—A. E. Eggert, city purch. agt., approximately 7,473 sq.yd. brick on 7 in., 1,867 sq.yd. brick on 8 in. and 7,135 sq.yd. sheet asphalt paving South Robert St., to Fielding & Shepley, 216 University Ave., $63,449. Noted Mar. 18.

Kan., McPherson—McPherson Co., grading, etc., 7.817 mi. Federal Aid Project 278-A, 28 ft., to Campbell & Lockenmaier, Miltonville, $20,318; drainage structures and 3 bridges, to Shuss and Henderson,

Streets and Roads (Continued)

Larned, $9,495 and $18,203 respectively. Noted Jan. 28.

North Dakota—State Hy. Dept., Pierre, gravel surfacing, etc., Federal Aid Project 171, Barnes Co., to Tobin & Maloney, Madison, S. D., $10,032; grading Federal Aid Project 267, and grading, concrete paving, etc., Federal Aid Project 268-B, both in Cass Co., to W. H. Noel, Jamestown, $24,278 and $36,069 respectively. Grand total $70,379.

N. D., Valley City — C. W. Nelson, aud. Barnes Co., gravel surfacing 12 mi. Federal Aid Project 221-A and B, to Tobin & Maloney, Madison, S. D., $28,061; and 13 mi. Federal Aid Project 233-C, to W. Schultz, Fergus Falls, Minn., $28,781.

N. D., Wahpeton — G. J. Fisher, aud. Richland Co., grading 113,663 cu.yd. Abercrombie-Dwight Rd., Federal Aid Project 285-B, to M. E. Lien Constr. Co., Veblen, S. D., $40,322.

Mo., Maryville—M. C. Smith, city clk., grading, curbing, guttering and 7 in. rein.-con. paving 10,125 sq.yd. Walnut and 5th Sts., to Cook-O'Brien Constr. Co., 430 Railway Exch. Bldg., Kansas City. Noted Mar. 4.

Mo., St. Louis—Improving new Concordia Seminary Campus at De Mun and San Bonita Aves., near here, 3,200 sq.yd. concrete sidewalks, 9,500 sq.yd. amiesite on concrete paving, 9,200 ft. curbing and guttering, etc., to A. Fleschner, 7055 Winona Ave. Engrs. est. $44,000.

Ark., Warren—Grading, curbing, concrete paving, etc., 8 blocks Vine, Turner, Central and Railroad Sts., Dist. 3, to Cook & Ransome, Ottawa, Kan., $49,095.

Tex., Abilene — Warrenite bitulithic paving 6 blocks 5th St. from Peach to Boyce Sts., and Boyce St. from South 6th to South 5th Sts., 45 ft., to West Texas Constr. Co., $2.27 per yd., total approximately $28,000.

Tex., Anderson—Grimes Co., grading and bridging 11.07 mi. State Aid Project 621, to Thomas & Ratliff, Rogers, $94,958; also 5.088 mi. State Aid Project 610, to Womack Constr. Co., Sherman, $27,108. Noted Jan. 28.

Tex., Carthage — T. E. Boven, judge Panola Co., grading and bridging State Highway 8, State Aid Project 636, to C. Epps, P. O. Box 505, San Augustine, $32,-565. Noted Mar. 25.

Tex., Liberty—Liberty Co., concrete paving 16.71 mi. Highway 3, Federal Aid Project 352, Unit 4, and 5.82 mi. shell surfacing same road, to F. P. McElwrath, Corsicana, $419,220.

Tex., Memphis—For 2½ in. brick on 4 in. concrete paving various streets, to Panhandle Constr. Co., Lubbock, $181,550.

Tex., Stephenville — Erath Co., grading, bridging and sledged stone paving 4.96 mi. Highway 10, State Aid Project 563-B, 18 ft., to McClung Constr. Co., F. & M. Bank Bldg., Ft. Worth, $40,588. Engrs. est. $47,-000. Noted Mar. 11.

Tex., Waxahachie — Ellis Co., grading, bridging, etc., 4.19 mi. State Highway 6, Federal Aid Project 489-C, 26 ft., to Allen & Hughes, Reiger St., Dallas, $21,565.

Wash., Hoquiam — City Comn. paving Emerson Ave. et al., to Grays Harbor Constr. Co., Hoquiam, $74,192. Engrs. est. $75,000.

Wash., Longview—Curbing, sidewalks and paving streets in L. I. D. 17, to Olympic Constr. Co., Longview, $25,722.

Wash., Montesano—Grays Harbor Co., improving North River Highway, 27,242 cu. yd. grading, 5,500 cu.yd. gravel surfacing, etc., to Peck & Einerson, Hoquiam, $41,-000. Engrs. est. $42,000.

Wash., Seattle — Concrete paving, etc., Corliss Ave. et al, to Fiorito Bros., 3950 6th St. N. W., $44,811, engrs. est. $50,356; also North and West 76th St., to J. L. Smith, 304 West 36th St., $31,981, engrs. est. $46,142.

Wash., Tacoma — City Comn., concrete paving South 31st and 35th Sts., Pacific Ave. et al, to J. Warter, Sr., 631 Fife St., $51,673. Engrs. est. $68,702.

Calif., Colusa—Colusa Co., to Force-Currigan & McLeod, Syndicate Bldg., Oakland, asphaltic concrete paving 507,600 sq.ft. East Side Rd., $50,515; to Valley Paving & Constr. Co., Visalia, subgrading and asphaltic concrete paving 293,000 sq.ft. Prize City College Rd. $31,937, 1½ in. asphaltic concrete paving 293,000 sq.ft. Prize College City Rd. $23,440, also grading, subgrading and 4½ in. asphaltic concrete paving 182,-200 sq.ft. Grimes-Knights Landing Rd., $29,527. Grand total $135,419. Noted Jan. 28.

Calif., Fullerton—For 6 in. paving 31,000 sq.ft. and 5 in. asphaltic concrete paving 67,000 sq.ft. South Lawrence and East Ash Aves., etc., to Griffith Co., Railway Bldg., Los Angeles, $42,215. Noted Mar. 4.

Calif., Glendale—City Trustees, grading, walks, curbing and concrete paving, etc., Canyon Court, Canyon and Luton Drives, etc., to E. L. Fleming, 144-A South Brand Blvd., $45,385. Noted Mar. 18.

Calif., Los Angeles—Bd. Pub. Wks., curbing, concrete paving, etc. portion of Kenilworth Ave. between Moreno Dr. and August St., to H. A. McCray, Amer. Bank Bldg., $138,015; also improving 7th St. between Gaffey and Meyler Sts., to Griffith Co., Railway Bldg., Fresno. Noted Mar. 11.

Calif., Los Angeles—To Griffith Co., Railway Bldg., walks, and concrete paving, etc., Glassell Ave. between West View Ave. and Verdugo Rd., $286,295; to H. A. McCray, 129 West 2nd St., grading and concrete paving Kling St. $11,730, grading, curbing, guttering and concrete paving Sycamore Ave. $10,843, and sidewalks, etc., on Oregon St. $6,333. Grand total $315,201.

Calif., Los Angeles — Supervs. Los Angeles Co., curbing, guttering, grading, concrete paving, etc. 79,980 sq.ft. Live Oak Ave., to Griffith Co., 502 Los Angeles Ry. Bldg., $12,950; also 9,756 sq.ft. Orchard and Harvard Aves., to G. A. Sheppard, 1417 Dana St., $3,809. Noted Feb. 11.

Calif., Los Angeles—Grading 50,000 yd. North Main St. between 1st and Temple Sts., to Los Angeles Rock & Gravel Co., 1735 North Main St., $0.63 per yd.

Calif., San Diego—Common Council improving Goldfinch St. and Ft. Stockton Dr., to G. R. Daley, 4430 Boundary St., $29,-655; also Upas, Palm, Nutmeg Sts., etc., to L. J. Turner, 205 East 1st St., Long Beach, $113,104. Noted Mar. 18.

Calif., Walnut Creek — City Trustees, grading, curbing, guttering and 5 in. concrete paving 150,000 sq.ft. and 7 in. asphaltic macadam paving 136,500 sq.ft. various streets, to G. W. Cushing, 2005 Roosevelt Ave., Richmond, $69,860. Noted Mar. 11.

Quebec — Provincial Government, Quebec, opening 40 mi. road from Mecamik to Rouyn Mines, to J. Forten, Mecamik and Quebec. Engrs. est. $100,000.

Alberta — Dept. Pub. Wks., Edmonton, grading, gravel surfacing road between Coleman and Crows Nest Lake, to Broley & Kordus, Edmonton. Engrs. est. $40,000.

B. C., North Vancouver — Municipality, grading and paving 14,100 ft. Centre Rd., to A. B. Palmer, Co., Ltd., Vancouver. Engrs. est. $75,000.

B. C., North Vancouver — Grading and paving 6 in. concrete paving 14,100 ft. on Center Rd. and St. Denis Ave., to Cotton Co. Ltd., False Creek Yards, Vancouver, $79,690. Engrs. est. $80,000.

B. C., Point Grey—Municipality, bituminous concrete and solid concrete, also concrete and asphalt topping various streets, to Cotton Co. Ltd., False Creek Yards, Vancouver, $42,000. Noted Feb. 4.

B. C., Point Grey—Curbing, and 4 mi. sidewalks on 10th Ave. leading to University Hill Dist., to A. B. Palmer & Co., 736 Granville St., Vancouver, $42,000.

Buildings—Commercial

Proposed Work

Me., Norway — BANK — Norway Natl. Bank having plans prepared by H. Coombs, 11 Lisbon St., Lewiston, 2 story and basement, rein.-con., brick and stone, plain foundation. $150,000.

N. H., North Conway—HOTEL—H. Randall, plans rebuilding hotel, recently destroyed by fire. $200,000. Engineer and architect not selected.

Mass., Boston — APARTMENT — A. Shapiro, 73 Cornhill St., having sketches made by Silverman, Brown & Heenan, 51 Cornhill, 4 story and basement, brick, Maple St. $200,000.

Mass., Boston — BATH HOUSE — City, Dept. Pub. Buildings, plans new bath house, L St. Beach. $380,000. Engineer and architect not selected.

Mass., Boston — GARAGE — St. James Building Corp., St. James Ave., plans 8 story, rein.-con. and steel, Park Sq. near St. James Ave. To exceed $150,000. Engineer and architect not selected.

Mass., Boston—HOME—Home for Italian Children, 1125 Center St., Jamaica Plain, having plans prepared by W. W. Drummey, 80 Boylston St., 2 story and basement, brick home. $150,000.

Mass., Boston—HOSPITAL—City, Hospital Dept., plans enlarging Relief Hospital, Haymarket Sq. To exceed $150,000. Engineer and architect not selected.

Mass., Boston — MUNICIPAL — City, Dept. Pub. Buildings, plans municipal building, Franklin Park-Franklin Field Dist. $400,000. Engineer and architect not selected.

Mass., Boston—Y. M. C. A., 316 Huntington Ave., plans Y. M. C. A. building, Dist. 1. $500,000. Engineer and architect not selected.

Mass., Dorchester (Boston P. O.) — MUNICIPAL—City, Dept. Pub. Bldgs., Boston, plans municipal building, Fields Corner Dist., here. To exceed $150,000. Engineer and architect not selected.

Mass., East Boston (Sta. Boston) — BATH HOUSE—City, Dept. Pub. Buildings, Boston, plans bath house, Jeffries Point, here. $300,000. Engineer and architect not selected.

Mass., Easthampton—EXCHANGE—New England Telephone & Telegraph Co., 50 Oliver St., Boston, plans 2 or more story, brick and stone, Chapman Ave. $150,000 or more. Company's engineer. Architect not selected.

Mass., Everett (br. Boston) — BANK — Everett Natl. Bank, 453 Bway., plans bank, Bway. and Cottage St. To exceed $150,000. Engineer and architect not selected.

Mass., Everett (Boston P. O.)—CLUB—Fraternal Building Assn., E. B. Forsland, chn. building com., 28 Reynolds Ave., having plans prepared by O. Helrich, 129 Buckman St., 2 story and basement, 40 x 60 x 100 ft., brick and timber, plain foundation, Bway. and Hosmer St. $150,-000.

Mass., Everett (br. Boston) — WAREHOUSE—Outlet Furniture Co., 366 Bway., plans warehouse, Bway. $150,000 or more. Engineer and architect not selected.

Mass., Framingham—HALL—Town, c/o Ashton, Huntress & Alter, archts., 477 Essex St., Lawrence, plans 2 or more story, brick town hall and memorial auditorium. $150,000-$175,000.

Mass., Medford (br. Boston) — CITY HALL — City, Bd. Aldermen, plans city hall, Mystic Valley Parkway and Main St. $200,000. Engineer and architect not selected.

Mass., Medford (br. Boston)—FIRE STATION—City, Bd. Aldermen, plans brick fire station, 4th St. $150,000 or more. Engineer and architect not selected.

Mass., Somerville (Boston P. O.) — STORE and OFFICE — L. Giardini, 107 Summer St., Boston, plans 2 or more story, brick and stone store and office building. To exceed $150,000. Engineer and architect not selected.

Mass., Somerville (Boston P. O.)—Y. M. C. A. plans raising $240,000 funds rebuilding 2 or more story and basement, recently destroyed by fire. Engineer and architect not selected.

Mass., Spencer — TOWN HALL — Town, Bd. Selectmen, plans rebuilding town hall, recently destroyed by fire. $200,000. Engineer and architect not selected.

Mass., Springfield — HOTEL — Hotel Bridgeway, 50 Bway., having plans prepared by Huestis & Huestis, 145 Chestnut St., hotel addition, Bway. $150,000.

Mass., Wellfleet—CLUB HOUSE, etc.—Chequesset Club having sketches made by D. Baker, 1011 Chestnut St., Phila., Pa., club house and golf course. $150,000 or more.

R. I., Providence—BUSINESS—City Hall Hardware Co., 150 Washington St., had plans prepared 4 story, brick and steel, Snow and Washington Sts. $225,000. Private plans.

Conn., Norwich—BANK—Dime Savings Bank, having plans prepared by Morgan French & Co., engrs. & archts., West 44th St., New York City, brick and steel, Bway. $150,000 or more. Noted Jan. 14.

N. Y., Buffalo—HOSPITAL—Erie Co., C. B. Lynch, superv., City Hall, plans hospital. To exceed $500,000.

N. Y., Buffalo—HOSPITAL—Jewish Hospital Assn. of Buffalo, 1067 Bway., plans hospital, Niagara Falls Blvd. $650,000.

N. Y., Buffalo — HOSPITAL — Millard Fillmore Hospital, Lafayette Ave., plans new maternity building, clinic, laboratory, addition to nurses home, and power and laundry plant, Lafayette Ave. $1,000,000.

N. Y., Buffalo—THEATRE—Erie Amusement Co., 887 Bway., plans brick and stone theatre. $175,000.

N. Y., New York — APARTMENTS — Owner, c/o G. F. Pelham, engr. and archt., 200 West 72nd St., having plans prepared two 6 story, 104 x 123 ft., and 100 x 140 ft., brick, steel and stone, plain foundations, 218th and Seaman Ave. $350,000 each.

N. Y., New York — DEPARTMENT STORE—Bloomingdale Bros., 59th St. and Lexington Ave., having preliminary plans prepared by Starrett & Van Vleck, engrs. and archts., 393 7th Ave., department store 59th St. and Lexington Ave. $7,000,000.

N. Y., New York—HOTEL—Plaza Hotel, West 58th St., having plans prepared by Warren & Wetmore, engrs. and archts., 16 East 47th St., brick, steel and stone addition, plain foundation, West 58th St. $250,000.

N. Y., New York—HOTEL—Tenth Holding Corp., c/o R. T. Lyons, engr. and archt.,

HIGHWAY—IDAHO

Bids were opened by Department of Public Works, Bureau of Highways, for grading and draining 7.68 mi. of North and South Highway between New Meadows and Whitebird, Idaho County, from (A) E. A. Webster & Co., Spokane, Wash. (awarded contract); (B) J. A. Terteling & Sons, Moscow; (C) Campbell Construction Co., Sunnyside, Wash.; (D) F. Knowles, Centralia, Wash.; (E) Toller & Drummey, Downey. The unit bids are as follows:

	A	B	C	D	E
21 acres clearing and grubbing	$150 00	$50 00	$15 00	$80 00	$300 00
479 cu.yd. excavation (structures) solid rock	1 50	2 00	2 50	3 00	3 50
89,729 cu.yd. excavation, unclassified (roadway)	.79	.83	.89	.89	.88
2,000 cu.yd. selected backfill	.60	.85	.50	1 00	.50
55 cu.yd. excavation (structures) earth	.50	1 50	.75	2 00	2 50
35,485 sq.yd. overhaul	.05	.05	.04	.05	.05
133 22 cu.yd. cement concrete, class "A", 1:2:4 mix	25 00	30 00	28 00	30 00	32 00
45 96 cu.yd. cement concrete class "B", 1:2½:5 mix in culvert headwalls	27 00	28 00	24 00	28 00	30 00
54 40 cu.yd. cement concrete class "B", 1:2½:5 mix in retaining walls	23 00	28 00	24 00	28 00	30 00
18,163 lb. metal reinforcement	.08	.10	.10	.10	.11
100 cu.yd. hand placed rip rap	3 50	3 00	2 00	2 00	3 50
676 lin.ft. 18 in. c.i. pipe, unload, haul and place	.60	1 00	.50	.75	.60
518 lin.ft. 24 in. c.i. pipe, unload, haul and place	.90	1 50	.75	1 00	.70
114 lin.ft. 30 in. c.i. pipe, unload, haul and place	1 25	2 00	1 00	1 25	.80
950 lin.ft. guard rail, type "A" (alternate)	.90	.85	1 00	1 00	.70
950 lin.ft. guard rail, type "E" (alternate)	1 00	.85	1 00	1 00	.70
Extended totals	$87,251	$91,451	$93,778	$97,801	$100,995

Buildings—Commercial (Continued)

342 Madison Ave., having plans prepared 21 story, brick, steel and stone, plain foundation, Madison Ave. and 49th St.

N. Y., New York — LOFT — E. Lieberman, c/o G. and E. Blum, engr. and archt., 415 Lexington Ave., having plans prepared 14 story, brick, steel and stone, plain foundation, West 30th St. $800,000.

N. Y., New York—LOFT—L. Mintner, c/o G. and E. Blum, engr. and archt., 415 Lexington Ave., having plans prepared 23 story, brick, steel and stone, plain foundation, 28th St. and 7th Ave.

N. Y., New York—LOFT and OFFICE—Owner, c/o Sommerfield & Sass, engrs. and archts., 31 Union Sq., having plans prepared 7 story, brick, steel and stone, plain foundation, Canal and Forsythe Sts. $500,000.

N. Y., New York—MEMORIAL—Dept. Parks, Arsenal Bldg., Central Bldg., 46th St. and 5th Ave., having plans prepared by J. R. Pope, 542 5th Ave., Theodore Roosevelt Memorial, brick, steel and stone, plain foundation, Central Park and 79th St. $2,500,000. E. C. Seelye, 101 Park Ave., structural engr.

N. Y., New York—OFFICE—A. Wilson, c/o Sloane & Robertson, engrs. and archts., 441 Lexington Ave., having plans prepared brick, steel and stone, plain foundation, 284 Madison Ave. $900,000.

N. Y., New York—STORE and LOFT—J. Thorp, c/o Buchman & Kahn, engrs. and archts., 49 West 45th St., soon takes bids brick, steel and stone, plain foundation, 24 West 57th St. $350,000.

N. J., Jersey City—Y. M. H. A., Newark Ave., soon takes bids brick, steel and stone community center, plain foundation, Bergen Ave. $600,000. N. Welitoff, 294 Washington Ave., engr. and archt.

N. J., Newark—AUDITORIUM and OFFICE—Arena & Amusement Co., Inc., c/o H. Harris, engr. and archt., Chamber of Commerce Bldg., having plans prepared 30 story, brick, steel and stone, plain foundation, Canal St. $4,000,000.

Pa., Jersey Shore—BANK—Jersey Shore Trust Co., Front and Main Sts., plans 3 story and basement, 40 x 100 ft., stone, South Main St. $150,000.

Pa., Lewistown—LODGE—F. & A. M. 370, c/o D. E. Miller, secy., 168 Pannebaker Ave., having plans prepared by Hersh & Sholler, Commerce Bldg., Altoona, 3 story and basement, 80 x 100 ft., stone, brick and steel, Main St. $200,000. Noted Feb. 4.

Pa., Phila. — BANK and OFFICE — S. Clements, Packard Bldg., having plans prepared by L. B. Rothschild, 215 South Broad St., 6 story and basement, 50 x 118 ft., rein.-con., brick, stone and steel, plain foundation, 6th and Walnut Sts. Brown Bros., 30 Chestnut St., lessee.

Pa., Phila. — STORE — E. L. Rothschild, archt., Bankers Trust Bldg., soon lets contract 3 story and basement, 40 x 90 x 220 ft., rein.-con., brick and steel, plain foundation, 5611-13 North 5th St., for Z. Rosenfeld, 2900 North 5th St.

Pa., Phila. — THEATRE — R. Benckert, archt., Bellevue Court, Phila., and H. J. Kropp, archt., 1 West 47th St., New York City, N. Y., soon lets contract 1 story, mezzanine and balcony, 114 x 180 ft., rein.-con., brick and steel, plain foundation, Cherry St. between Watt and Juniper Sts., for Juniper & Cherry St. Corp., c/o architect.

Pa., South Williamsport (Williamsport P. O.)—THEATRE—T. R. Adams, 366 Market St., plans 2 story and basement, 73 x 100 ft., brick and steel, Southern Ave. $150,000.

Pa., Wayne — APARTMENT — J. C. Nortch, archt., Ardmore, preparing plans 4 story and basement, 235 x 310 ft., rein.-con., brick and steel, plain foundation, here. Owner's name withheld.

Md., Baltimore—BANK—Federal Reserve Bank of Richmond, South and Redwood Sts., plans 2 story and basement, 100 x 125 ft., stone bank, Calvert and Lexington Sts. $1,000,000. Engineer and architect not selected.

Md., Baltimore—THEATRE and STORE—Stanley-Crandall Co., H. M. Crandall, vice pres., Wash., D. C., plans rein.-con., brick and steel, plain foundation, Howard St. near Franklin St. $1,500,000. Engineer and architect not selected.

D. C., Wash.—BANK, STORE and OFFICE—Washington Loan & Trust Co., 9th and F Sts. N. W., having plans prepared by A. B. Heaton, Maryland Bldg., bank, store and office building addition. $500,000.

D. C., Wash.—HOTEL and STORE—City Central Corp., c/o T. W. Lamb, engr. and archt., 644 8th Ave., New York City, having plans prepared brick, steel and stone, plain foundation, 10th and D Sts., here. $1,500,000.

Fla., Coral Gables—APARTMENT—Urmey Arms, Inc., W. N. Urmey, mgr., had plans prepared by P. E. Paist, Coral Gables, 25 story co-operative apartment, Segovia Blvd., Biltmore and Coral Ways. $12,500,000.

Fla., Hollywood—APARTMENT-HOTEL—Stettler Promotion Corp., c/o E. Weyland, archt., 114 Grand Ave., Milwaukee, Wis., having plans prepared 5 story, 125 x 157 ft., brick and concrete building. $250,000.

Tenn., Cleveland — HOTEL — Chamber Commerce having preliminary surveys made hotel. $150,000. H. K. Ferguson Co., 4900 Euclid Ave., Cleveland, O., engr.

O., Akron—HOTEL—Portage Hotels Co., c/o Essenwein & Johnson, archts., Ellicott Sq. Bldg., Buffalo, N. Y., having plans prepared hotel, here. To exceed $500,000.

O., Cleveland — COMMERCIAL and APARTMENT — M. Weinberg, 7807 Cedar Ave., had plans prepared by A. B. Sylvanus, 6007 Euclid Ave., 3 story and basement, 60 x 185 ft., brick and timber, St. Clair and Glenside Aves. $150,000.

O., Cleveland—HOTEL—Paul Bros., c/o G. J. Paul, Fidelity Mortgage Bldg., having preliminary plans prepared by G. Ebeling, 732 Prospect Ave., 10 story and basement, rein.-con., brick and steel, East 6th St. and Superior Ave. $1,000,000.

O., Columbus — RESTAURANT — Maramor Co., 112 East Broad St., had plans prepared by Howell & Thomas, 4500 Euclid Ave., Cleveland, 2 story and basement, 61 x 187½ ft., concrete and brick, 5th and Broad Sts. $150,000.

O., Dayton — HOTEL — J. F. Gibbons plans remodeling 8 story building into hotel, Ludlow St. $150,000. Engineer and architect not selected.

O., Youngstown—OFFICE—Truscon Steel Co. having plans prepared by A. Kahn, Marquette Bldg., Detroit, Mich., and soon takes bids 3 story and basement, brick and steel, Albert St. $200,000.

Ind., Indianapolis — APARTMENT — H. L. Moody & Co., 3376 College Ave., had plans prepared by George & Zimmerman, 501 Meyer-Kiser Bank Bldg., 83 x 104 ft., brick and rein.-con., Maple Rd. and New Jersey St. $155,000.

Mich., Birmingham—THEATRE—Briggs Investment Co., Detroit, c/o C. H. Crane & E. Kiehler, archts., 542 Griswold St., Detroit, having plans prepared 2 story and basement, rein.-con., brick and steel, plain foundation. $250,000.

Mich., Detroit — Y. M. C. A., A. G. Studer, secy., Y. M. C. A. Bldg., having plans prepared by Architectural Bureau Y. M. C. A., 2 West 45th St., New York City, 4 story and basement, 150 x 150 ft., rein.-con., brick and steel, plain foundation, incl. swimming tank, Dix Ave. $500,000.

Mich., Grosse Pointe (br. Detroit) — CLUB HOUSE—Smith, Hinchman & Grylls, archts., 800 Marquette Bldg., Detroit, take bids about Mar. 31, 3 story and part basement, 73 x 157 ft., rein.-con., brick and steel, plain foundation, here, for Country Club of Detroit, Grosse Pointe Farms. $300,000. Noted Nov. 26.

Ill., Chicago—APARTMENT HOTEL—M. M. Fishman, archt., 11 South La Salle St., takes bids about Apr. 18, 6 and 7 story, 50 x 150 ft., rein.-con., brick and terra cotta, Winthrop Ave. in 6300th Blk. $400,000. Owner's name withheld.

Ill., Chicago—APARTMENT—Syndicate, c/o D. W. F. Turbyfill, archt., 40 North Dearborn St., having plans prepared 11 story, 75 x 150 ft., brick and terra cotta, Fargo Ave. near Sheridan Rd. $700,000.

Ill., Chicago—APARTMENT HOTEL—H. Zook, 1209 East 55th St., having plans prepared by T. R. Bishop, 35 South Dearborn St., and takes bids in April or May, 12 story, 150 x 150 ft., apartment hotel, 5230-44 Sheridan Rd. $3,500,000.

Ill., Chicago—CLUB—Midway Athletic Club, 1180 East 63rd St., having plans prepared by N. M. Dunning, 25 East Jackson Blvd., and J. Eberson, associated archt., 212 East Superior St., 12 or 13 story, 150 x 200 ft., club, incl. gymnasium, swimming pools, etc., Midway and Stoney Island Aves. $3,200,000.

Ill., Chicago — THEATRE, STORE and APARTMENT — R. Levine & Co., 822 West 70th St., take bids about Apr. 1, 3 story, rein.-con., brick, steel and terra cotta, Grand Ave. and Neva Aves., for Montclair Building Corp. $750,000. Noted Nov. 12.

Ill., Urbana—ARMORY—University of Illinois soon takes bids 2 story and basement, concrete, brick and stone armory addition. $425,000. J. M. White, 256 Administration Bldg., archt.

Wis., Kenosha—CLUBHOUSE—F. O. E. Lodge 1055, C. Ryan, Pub. Serv. Bldg., chn. building com., plans 2 story and basement, 100 x 102 ft., rein.-con. and brick addition, plain foundation. $150,000. Lindl & Schutte, 82 Wisconsin St., Milwaukee, archts.

Wis., Kenosha—EXCHANGE—Wisconsin Telephone Co., 418 Bway., Milwaukee, having plans prepared by Eschweiler & Eschweiler, 210 Mason St., Milwaukee, 2 story and basement, 102 x 120 ft., rein.-con. and brick, plain foundation, Congress St., here. $150,000.

Wis., La Crosse—HOTEL—C. A. and E. D. Hunt, 3rd and State Sts., having plans prepared by O. J. and R. E. Sorensen, 226 Main St., remodeling 3 story, brick hotel. $150,000.

Wis., La Crosse—HOTEL—Owner, c/o A. F. John, 120 Wisconsin St., Milwaukee, having preliminary plans prepared by M. Tullgren & Sons, 9 Waverly Pl., Wilwaukee,

Buildings—Commercial (Continued)

8 story and basement, rein.-con. and brick, plain foundation, here. $500,000.

Wis., La Crosse — OFFICE and THEATRE—Cooper Amusement Co., 303 Main St., having plans prepared by O. J. and R. E. Sorensen, 226 Main St., 5 story and basement, 77 x 180 ft., rein.-con. and brick, plain foundation, 5th St. $275,000.

Wis., Madison — HOSPITAL — Methodist Hospital, 303 West Washington Ave., having plans prepared by J. R. and E. J. Law, 1st Central Bldg., 6 story and basement, 48 x 176 ft., rein.-con., brick and steel, plain foundation. $500,000. Noted Sept. 18.

Wis., Milwaukee — APARTMENT and STORE—I. Miller, 114 Grand Ave., having plans prepared by J. Leiser, 105 Wells St., 8 story and basement, rein.-con., brick and steel, plain foundation, Wells and 13th Sts. $500,000.

Wis., Milwaukee—APARTMENT—G. E. Zimmermann, 3402 Grand Ave., plans 80 x 200 ft., brick and concrete, plain foundation, Grand Ave. $250,000. Engineer and architect not selected.

Wis., Milwaukee — BUSINESS — A. R. Munkwitz, 177 Muskego Ave., had plans prepared by Kirchhoff & Rose, 210 Sycamore St., 5 story and basement, 75 x 120 ft., rein.-con. and brick, plain foundation, Mason and Milwaukee Sts. $225,000.

Wis., Milwaukee—DORMITORY—Beldon Realty Co., c/o A. J. Kenney, archt., 513 Van Buren St., having plans prepared 3 story and basement, 62 x 110 ft., brick and tile, plain foundation, Clybourn St. $150,000.

Wis., Milwaukee — LODGE — Pythian Castle, Inc., 464 11th Ave., plans 2 story and basement, 122 x 126 ft., rein.-con. and brick, plain foundation, National Ave. $150,000. R. E. Oberst, 128 Grand Ave., archt. Noted Feb. 18.

Wis., Milwaukee — RECREATION and BUSINESS — M. L. Annenberg Co., 425 East Water St., having preliminary plans prepared by Dick & Bauer, 811 State St., 3 story and basement, 135 x 145 ft., rein.-con. and brick, plain foundation, 27th St. $250,000.

Wis., Milwaukee—WAREHOUSE—Palmolive Co., 42 4th St., having plans prepared 8 story, 68 x 142 ft., rein.-con., brick, plain foundation, Fowler St. Lockwood, Greene & Co., 400 North Michigan Blvd., Chicago, Ill., engrs.

Wis., Waukesha — RECREATION and APARTMENT—H. C. Hengels, archt., 445 Milwaukee St., Milwaukee, preparing plans 4 story and basement, 62 x 130 ft., rein.-con., brick and steel, plain foundation. $165,000. Owner's name withheld.

Wis., Waupun — CITY HALL — R. Zimmermann, city clk., plans 3 story and basement, rein.-con. and brick, plain foundation. $150,000. Engineer and architect not selected.

Wis., Oshkosh — BANK and OFFICE — First Natl. Bank, Main and Washington Sts., had plans prepared by Hoggson Bros., 38 South Dearborn St., Chicago, Ill., 8 story and basement, 92 x 125 ft., rein.-con., brick and stone, plain foundation. $800,000. Noted Dec. 10.

Ia., Newton—OFFICE and THEATRE—F. L. Maytag, c/o Maytag Co., Newton, had plans prepared by H. Raeder, 20 West Jackson St., Chicago, Ill., 5 story and basement, 68 x 133 ft., rein.-con., brick, tile and terra cotta addition to hotel (now under construction). $250,000.

Kan., Kansas City—THEATRE—E. J. and F. G. Gruble, 546 Minnesota Ave., plans fireproof theatre. $500,000. Engineer and architect not selected.

Neb., Hastings—HOTEL and THEATRE—G. L. Fisher, archt., 1437 City Natl. Bank Bldg., Omaha, soon takes bids 3 story (ultimately 5 story) and basement, 120 x 154 ft. hotel, incl. 1 story and balcony, 68 x 122 ft. theatre, rein.-con., brick and terra cotta, here, for Hastings Theatre & Realty Corp., c/o G. Monroe, 804 North 33rd St., Omaha. $150,000.

Neb., Omaha—BUSINESS—O. C. Redick, 245 Omaha Natl. Bank Bldg., plans 6 to 8 story and basement, brick, 15th and Harney Sts. $600,000-$800,000. Engineer and architect not selected.

Mo., Joplin—BUSINESS—Empire Dist. Electric Co. plans 4 story and basement, 50 x 120 ft. business building. $175,000.

Mo., Kansas City—APARTMENT HOTEL, etc.—G. H. McCanles, Victor Bldg., having plans prepared by R. F. Gornall, 3619 Bway., two 7 story and basement, 73 x 130 ft. buildings, Warner Plaza and Main St., also ten non-fireproof, 2 story apartment buildings, incl. separate heating plants for each. $500,000 each.

Mo., Kansas City—HOTEL—C. E. Phillips Building Co., 609 Victor Bldg., having plans prepared by N. E Peters, 1006 Orear Leslie Bldg., 8 story and basement, rein.-con. and brick hotel, here. Work will probably be done by day labor.

Mo., Kansas City — WHOLESALE MARKET — Riverside Storage Co., 414 Ridge Bldg., having plans prepared by C. A. Smith, 800 Finance Bldg., 1 and 5 story and basement, rein.-con. and brick, 4,800,000 sq.ft. floor space. $1,000,000.

Mo., St. Louis—APARTMENT—S. Hamburg, Jr., et al, Arcade Bldg., having preliminary plans prepared 6 story and basement, 80 x 142 ft., rein.-con., brick, steel and terra cotta, Union Blvd. and Savoy Court. $500,000. Private plans.

Mo., St. Louis — APARTMENT — See "Contracts Awarded."

Mo., St. Louis — APARTMENT and STORE—See "Contracts Awarded."

Mo., St. Louis—HOSPITAL—Lutheran Hospital, Potomac St. and Ohio Ave., soon take bids 5 story and basement, 100 x 100 ft., rein.-con., brick and stone addition, Ohio Ave. $300,000. T. Steinmeyer, International Life Bldg., archt.

Mo., St. Louis—SANITARIUM—City had plans prepared by L. R. Bowen & A. Osburg, 301 City Hall, 2 story and basement, 40 x 135 ft., 30 x 76 ft., and 40 x 90 ft., rein.-con., brick and stone addition, Arsenal St. L. R. Bowen & H. Updike, 301 City Hall, engrs.

Mo., University (Sta. St. Louis) — APARTMENT and STORE—C. E. Richardson, International Life Bldg., St. Louis, plans 3 story and basement, 75 x 84 ft., rein.-con., brick and terra cotta, Delmar Blvd. and Heman Ave. $150,000. Private plans.

Mo., University (Sta. St. Louis)—STORE—Syndicate, c/o H. R. Weisels Co., 8th and Chestnut Sts., St. Louis, plans 3 story and basement, 100 x 183 ft., rein.-con., brick and stone, Delmar Blvd. and Heman Ave. $500,000.

Tex., Corpus Christi—HOTEL, etc.—P. M. Chamberlain, having plans prepared by G. Willis, c/o Builders Exch. Bldg., San Antonio, tile and stucco hotel, plain foundation, also village. $250,000. St. Cyr Barrington, Wash., D. C., associated archt.

Tex., San Antonio—THEATRE—Interstate Amusement Co., c/o Hoblitzelle, Preston Rd., Dallas, plans Majestic Theatre, here. $150,000 or more. Private plans.

Tex., San Benito—HOTEL—San Benito Community Hotel Co., having plans prepared by H. P. Smith, Natl. Bank Commerce Bldg., 4 story and basement, rein.-con., brick and tile, plain foundation. $175,000.

Okla., Chickasha—BANK and OFFICE—Oklahoma Natl. Bank having preliminary plans prepared by F. A. Eades, Chickasha, 8 story and basement, 50 x 140 ft., rein.-con. and brick, plain foundation, 2nd St. $200,000.

Calif., Los Angeles—APARTMENT—See "Contracts Awarded."

Calif., Los Angeles — GARAGE, etc. — A. P. Mitchel, et al., c/o T. B. Keim, archt., Haas Bldg., having plans prepared 4 story and basement, 104 x 155 ft., rein.-con., 12th and Figueroa Sts.

Calif., Los Angeles—STORE and OFFICE—California Properties, Inc., c/o C. J. Smale, archt., 509 South Western Ave., plans 8 story and basement, 6th and Western Aves. To exceed $150,000.

Calif., Los Angeles — WAREHOUSE — Catalina Terminal & Warehouse Corp., 609 Stock Exchange Bldg., plans 3 story, 60 x 250 ft., rein.-con., Broad Ave. between B and C Sts. $150,000. Engineer and architect selected soon.

Calif., Oakland — HOTEL — J. W. Leaming, Ray Bldg., having plans prepared by W. H. Weeks, 369 Pine St., San Francisco, 10 story and basement, concrete annex, Franklin St. near 19th St. $350,000.

Calif., Palo Alto—STORE and OFFICE—Syndicate, c/o C. Strub, 925 Market St., San Francisco, plans 6 story and basement, 110 x 125 ft., fireproof, Kipling St. and University Ave.

Calif., San Francisco — APARTMENT — N. Schultz & Oser Estate, c/o Hyman & Appleton, archts., 68 Post St., having plans prepared 12 story and basement, Green and Jones Sts. $300,000.

Calif., San Francisco—FIREHOUSES—City and San Francisco Co., having plans prepared by J. Reid, Jr., City Hall, three 2 story, fireproof firehouses. $150,000.

Calif., San Francisco—OFFICE—California Commercial Co., California-Commercial Bldg., having plans prepared by G. W. Kelham, Sharon Bldg., 14 story and basement addition, atop 2 story annex to 16 story main office building, Montgomery and Pine Sts. $500,000.

Calif., San Leandro — CITY HALL — Plans new election $175,000 bonds, city hall. Previous election defeated. Noted Oct. 18.

Calif., San Luis Obispo — HOSPITAL — San Luis Obispo Co., rejected bids brick hospital. $150,000 or more. Noted Mar. 18.

Calif., Santa Barbara—HOSPITAL—St. Francis Hospital, East Arrellaga Ave., having plans prepared by W. Mooser, Nevada Bank Bldg., San Francisco, reconstructing fireproof hospital. To exceed $150,000.

Man., Winnipeg—HOSPITAL—Sisters of Misericorde, Sherbrooke and Wolseley Sts., takes bids about Mar. 31, 3 story, basement and sub-basement, 46 x 150 ft., and 46 x 205 ft., rein.-con., brick and stone addition. $175,000. Viau & Venne, 95 St. James St., Montreal, archts. Noted Mar. 4.

Ont., St. Catharines — HOSPITAL — St. Catharines Hospital Bd. having plans prepared by Nicholson & MacBeth, 46 Queen St. W., 3 story and basement, rein.-con., brick and steel addition, plain foundation. $150,000.

Ont., Thistledown—HOSPITAL—Hospital for Sick Children, 67 College St., Toronto, having plans prepared by Sproatt & Raph, 1162 Bay St., Toronto, 2 or 3 story, rein.-con., brick and steel, plain foundation. $500,000. Noted Mar. 11.

B. C., Vancouver—APARTMENT HOTEL—Georgia Hotel, Ltd., Standard Bank Bldg., having plans prepared by R. T. Garrow, 703 Yorkshire Bldg., and takes bids about Apr. 1, 12 story and basement, 120 x 150 ft., rein.-con., brick and stone, Georgia and Howe Sts. $2,500,000. Noted Mar. 4.

Bids Desired

Mass., Fall River—OFFICE—Fall River Electric Light Co., 85 North Main St., taking bids 2 story and basement, 130 x 150 ft., brick and steel, Hartwell St. $160,000. E. I. Marvell, 209 Bedford St., archt.

Mass., Medford (Br. Boston)—APARTMENT—See "Contracts Awarded."

N. Y., Brooklyn — APARTMENT — See "Contracts Awarded."

N. Y., New York—SALES and SERVICE—Apr. 1, by A. Kahn, archt., 100 Marquette Bldg., Detroit, Mich., 3 story and part basement, 81 x 238 ft., rein.-con. and brick, plain foundation, Sherman Ave. and Bway., here, for Packard Motor Car Co., East Grand Blvd., Detroit.

Pa., Phila.—APARTMENT—Mar. 29, by I. W. Levin, archt., 1011 Chestnut St., 4 story and basement, 46 x 167 ft., brick and steel, plain foundation, 4205 Chestnut St., for J. Soutti, 412 Jefferson St. $150,000.

Pa., Phila.—GARAGE—Mar. 31, by L. J. Tonk, archt., 303 Schaff Bldg., 4 story and basement, 53 x 109 ft., rein.-con. and brick, plain foundation, 60 North 4th St., for R. Rechbook, c/o architect.

Md., Catonsville (br. Baltimore)—HOSPITAL—Mar. 29, by H. P. Hopkins & A. Burton, archts., 347 North Charles St., Baltimore, 4 story and basement, 50 x 115 ft., stone and steel wing to Foster Clinic, at Spring Grove Hospital, here. $150,000. Former bids rejected. Noted Mar. 4.

O., Canton — GARAGE — Mar. 30, by Hauck & Letherman Motor Co., 2 story and basement, 96 x 200 ft., East Tuscarawas St. $150,000.

O., Cleveland — APARTMENT — Cedar-Glen Co., c/o S. H. White, archt., 1039 Schofield Bldg., taking bids 3 story and basement, brick, steel and concrete, 2180 Ambleside Ave. $400,000. S. H. White, 1030 Schofield Bldg., archt.

O., Cleveland—APARTMENT—A. Dombick & A. Horwitz, 3416 East 134th St., taking bids 3 story and basement, 73 x 121 ft., brick, Bosworth Rd. and Florian Ave. $150,000. L. Skolnik, Auditorium Garage Bldg., archt.

O., Cleveland—COMMERCIAL GARAGE and APARTMENT—S. Z. Talisman, 11415 Kinsman Rd., taking bids 1 and 3 story, 76 x 142 ft., brick, 11503 Kinsman Rd. $150,000. Porter & McNally, 3030 Euclid Ave., archts.

O., Mansfield—HOTEL—Apr. 5, by Richland Hotel Co., c/o W. B. Martin, chn. building com., Chalfant Apartments, 8 story and basement, 90 x 130 ft., brick, steel and concrete, hotel. $600,000. Schenck & Williams, Mutual Home Bldg., Dayton, archts. V. Redding & associates, Bird Bldg., associated archts.

O., Youngstown — THEATRE and OFFICE—Apr. 1, by State Theatre Co., 2 story and basement, 87 x 160 ft., 2,000 seating capacity, West Federal St. $750,000. M. Scheible, Youngstown, associated archt. H. Crane, 1734 Seward St., Detroit, Mich., archt.

Mich., Detroit—APARTMENT—P. Miller, 600 Majestic Bldg., taking bids 4 story and basement, brick and steel, plain foundation, Boston Blvd. $150,000. Halpin & Jewell, 1024 Hammond Bldg., archts.

Mich., Detroit — OFFICE — Mar. 29, by C. E. Schley, archt., 1121 Lafayette Bldg., 26 story and basement, rein.-con., brick and steel, caisson foundation, Lafayette Ave., for Lafayette Building Co., c/o architect.

Buildings—Commercial (Continued)

Mich., Detroit—THEATRE, OFFICE and HOTEL—C. H. Miles, Miles Theatre Bldg., State and Griswold Sts., taking bids 16 story and basement, 100 x 200 ft., rein.-con., brick and steel, plain foundation, West Adams Ave. P. R. Pereira, Lincoln Bldg., 333 State St., archt. Noted Jan. 28.

Ill., Chicago—APARTMENT—McNally & Quinn, archts., 12 South La Salle St., taking bids 7 story, 50 x 125 ft., rein.-con., brick and stone, 7147 Jeffrey Ave., for F. McKey, et al, c/o architects. $325,000.

Ill., Chicago—APARTMENT—Rissman & Hirschfield, archts., 64 West Randolph St., taking bids 16 story, 107 x 174 ft., 402-18 Aldine Ave. and Sheridan Rd., for Edith Rockefeller McCormick, c/o Krenn & Dato, 936 North Michigan Ave. $950,000.

Ill., Chicago—STORE, APARTMENT and GARAGE—J. A. Hyden, archt., 190 North State St., taking bids 3 story, brick, for J. Canger, Howard St. and Ridge Ave.

Ill., Chicago—HOTEL—R. F. France & Co., archts., 155 North Clark St., taking bids 29 story, Women's Hotel, Chestnut St. near Seneca St., for M. A. Howell, et al, 4911 Winthrop Ave. $2,000,000. Noted Nov. 19.

Ill., Urbana—ARMORY—Apr. 9, by University of Illinois, c/o J. M. White, ch. archt., 256 Administration Bldg., 2 story and basement, rein.-con., brick and stone addition, on campus. $425,000. Noted Mar. 18.

Tex., Corpus Christi — HOTEL — See "Contracts Awarded."

Ark., Hot Springs—HOTEL—See "Contracts Awarded."

Calif., Boyes Springs—HOTEL—J. L. Stewart, archt., Claus Spreckels Bldg., San Francisco, taking bids 2 and 3 story, rein.-con. hotel, for Sonoma Properties Co. $200,000 or more. Noted Mar. 4.

Calif., Los Angeles — HOME — A. G. Bailey, archt., Hill Street Bldg., taking bids three 3 story, rein.-con., Norwalk St., for Southern California Home for Aged Women. $175,000.

Calif., Los Angeles — LOFT — Morgan, Walls & Clements, archts., Van Nuys Bldg., taking bids 5 story and basement, 65 x 130 ft., rein.-con., South Los Angeles St., for M. R. Gray, c/o architects. Noted Mar. 4.

Calif., Los Angeles—THEATRE, STORE and OFFICE—W. H. Fisher, Union Oil Bldg. taking bids 2 story and basement, 35 x 140 ft. office section, and 135 x 162 ft. theatre section, 2,000 seating capacity, steel and rein.-con., Wilshire Blvd. and Sycamore Ave. $350,000. West Coast Theatres, Knickerbocker Bldg., lessee. Noted Feb. 11.

Calif., Santa Monica—EXCHANGGE—M. Sasso, archt., I. W. Hellman Bldg., Los Angeles, taking bids 6 story and basement, 60 x 80 ft., brick and steel exchange, here, for Santa Monica Telephone Co. Noted Feb. 4.

Bids Received

Calif., Watsonville — HOTEL — W. H. Weeks, archt., 369 Pine St., San Francisco, 5 story and basement, rein.-con., Main and Lake Sts., from A. Johnson Co., 74 New Montgomery St., San Francisco, for Resetar Bros., Watsonville. $197,500. Noted Mar. 4.

Contracts Awarded

Mass., Medford (br. Boston)—APARTMENT—Brown & Fay, 15 Salem St., will build 4 story, brick and steel, Main St., by day labor. $150,000. C. A. Watkins, 15 Salem St., archts.

R. I., Edgewood (Sta. Providence) — MAUSOLEUM—Oakland Cemetery Corp., Broad St., stone mausoleum, to T. F. Cullinan, 1493 Broad St. Archts. est. $200,000. Noted Aug. 7 under "Providence."

Conn., Hartford—APARTMENT—G. W. Morris, 804 Farmington Ave., 10 story, 90 x 150 ft., brick, terra cotta and steel, Farmington Ave., to E. Morris, 804 Farmington Ave. Archts. est. $1,500,000. Private plans. Noted Feb. 4.

Conn., Hartford — OFFICE — Hartford City Gas Light Co., 565 Main St., 3 story and basement, brick and steel, Potter and Mechanic Sts., to Bartlett Brainard Co., 252 Asylum St. Archts. est. $150,000.

Conn., Stamford—APARTMENT—S. Zatkin, Woolsey Rd., 4 story, 40 x 166 ft., and 40 x 170 ft., brick and steel, Highland Ave., to Stamford Constr. Co., Strand Bldg. Archts. est. $600,000. Noted Feb. 18.

N. Y., Brooklyn — APARTMENT — W. Kraslow, 188 Montague St., will build brick, steel and stone, plain foundation, by day labor. $400,000. Shampan & Shampan, 188 Montague St., archts. and engrs.

N. Y., Brooklyn—BANK and OFFICE—Manufacturers Trust Co., 139 Bway., New York City, brick, steel and stone, plain foundation, 774 Bway., here, to H. A. Harris, 16 East 43rd St., New York City. Archts. est. $650,000. Noted Mar. 11.

N. Y., New York—BANK and OFFICE—United States Trust Co., 45 Wall St., 9 story, brick, steel and stone addition, plain foundation, 45 Wall St., to M. Eidlitz & Sons, 41 East 42nd St.

N. Y., New York—LOFT—Trinity Corporation, 187 Fulton St., 10 story, brick, steel and stone, plain foundation, Varick and Charlton Sts., to Industrial Eng. Co., 50 Church St. Archts. est. $700,000. Noted Feb. 25.

N. J., Newark—OFFICE——Feidlebaum & Lehman, 299 Clinton Ave., 9 story, brick, steel and stone, plain foundation, William St., to W. J. McEvoy Co., 85 Academy St. Archts. est. $200,000.

Pa., Allentown — THEATRE — J. K. Bowen, 950 Ham St., 1 story and basement, 100 x 140 ft. theatre, Hamilton St., to W. H. Gangeware & Co., Natl. Bank Bldg., $200,000.

Pa., Phila. — EXPOSITION — Sesquicentenial Exposition, c/o W. F. Kendrick, pres., 5th and Chestnut Sts., Exposition Building, 5 1 story, 170 x 925 ft., and 411 x 880 ft., rein.-con., stucco and steel, wood pile foundation, Broad and Government Sts., to M. Melody & Son, 1322 Race St. $740,000. Noted Mar. 18.

Pa., Pittsburgh — HOTEL — General Forbes Hotel Corp., 6th St. and Penn Ave., general contract 13 story and basement, 74 x 160 ft. addition, 6th St. and Penn Ave., to Longacre Eng. & Constr. Co., 345 Madison Ave., New York City, N. Y., about $1,500,000.

Pa., Pittsburgh—LODGE—Sherrod Temple Assn., Corless St., general contract 3 story and basement, 60 x 120 ft., Charters Ave., to R. K. Sefton, East Diamond St. N. S. Archts. est. $150,000.

Pa., Pittsburgh — WAREHOUSE — A. Kahn, archt., 1000 Marquette Bldg., Detroit, Mich., general contract 5 story and basement, 100 x 333 ft., Progress St., to S. M. Siesel Co., Forbes Bldg., for H. J. Heinz Co., 1062 Progress St. N. S. Archts. est. $1,000,000. Noted Nov. 26.

O., Canton—OFFICE—East Ohio Gas Co., 1405 East 6th St., Cleveland, 2 story and basement, 63 x 83 ft., brick and stone, Dewalt and 2nd Aves. N. W., to L. Kilgore, 1119 9th St. N. W., $150,000.

O., Dayton — MERCANTILE — Central Motor Sales Co., 216 West 3rd St., 2 story, 130 x 140 ft., rein.-con. and brick, plain foundation, West 3rd St., to Ostendorf Harris Co., 117 McDonough St., $150,000.

O., Lorain—APARTMENT—Overlook Co., c/o E. McGeorge, archt., 3030 Euclid Ave., Cleveland, 4 story and basement, brick, to W. Dunbar Co., 8201 Cedar Ave., Cleveland. Archts. est. $150,000. Noted Feb. 11.

O., Norwood (Ind. br. Cincinnati) — APARTMENT — Langdon Realty Co., 3 story and basement, 50 x 200 ft., rein.-con. and brick, plain foundation, to C. P. Mitchell, 1st Natl. Bank Bldg., $140,000.

Mich., Detroit—OFFICE—Detroit Trust Co., Fort and Shelby Sts., 2 story and basement, 138 x 140 ft., rein.-con., brick and steel, Fort St., to W. E. Wood Co., 1805 Ford Bldg. Archts. est. $250,000. Noted Mar. 4.

Mich., Detroit—OFFICE—R. Wurlitzer, 339 State St., 12 story and basement, 30 x 120 ft., rein.-con., brick and steel, plain foundation, Broadway Ave., to O. Misch Co., 159 East Columbia St.

Mich., Royal Oak (br. Detroit) — BIRD HOUSE—Detroit Zoological Park Comn., R. F. Follett, dir., Detroit, 2 story and basement, 95 x 137 ft., rein.-con., brick and steel, plain foundation, here, to Talbot & Meier, 250 West Lafayette Blvd., Detroit, $171,900. Noted Mar. 18.

Ill., Chicago — HOTEL — H. Olson, City Hall, general contract 6 story and basement, 50 x 170 ft., rein.-con., brick and steel, 4242 Clarendon Ave., to P. F. P. Mueller & Co., 1445 Granville Ave. Archts. est. $400,000. Noted Dec. 3.

Ill., Evanston — TEMPLE — Holabird & Roche, archts., 104 South Michigan Ave., Chicago, general contract 3 story, 66 x 150 ft., Bedford stone, etc., Lake St. and Maple Ave., to N. P. Severin Co., 105 West Monroe St., Chicago, for Evanston Lodge A. F. and A. M. Archts. est. $400,000. Noted Sept. 24.

Wis., Milwaukee—APARTMENT—Cedar St. Realty Co., c/o C. J. Keller & Son, archts., 430 Bway., 3 story, 48 x 128 ft., rein.-con. and brick, plain foundation, Cedar St., to Raulf Co., 428 Grand Ave. Archts. est. $150,000. Noted Mar. 4.

Wis., Milwaukee—APARTMENT—Goodsitt & Helfaer, 4609 North Ave., 3 story and basement (2 units each) 43 x 160 ft., rein.-con., brick and tile, plain foundation, concrete and masonry, to Wilke Bros., 1917 Oakland Ave.; carpentry work, to C. J. Harp., 1157 49th St. Archts. est. $250,000. Noted Jan. 21.

Wis., Milwaukee—BANK—Teutonia Ave. State Bank, 1074 Teutonia Ave., concrete and excavation work for 1 story and basement, 42 x 130 ft., rein.-con., brick and stone, plain foundation, Teutonia Ave., to Clos Constr. Co., 1089 45th St. Archts. est. $150,000. Noted Feb. 25.

N. D., Fargo — BANK and OFFICE — First Natl. Bank, E. J. Weiser, pres., 23 Bway., general contract 6 story and basement, rein.-con., brick, tile, stone and terra cotta, to Lovering & Longbotham Co., 605 Builders Exch., St. Paul, Minn. Archts. total est. about $300,000. Noted Jan. 7.

Mo., Kansas City—STORE and AUDITORIUM—Grelis Estate, 231 Scarritt Bldg., general contract 2 story and basement, 120 x 127 ft., rein.-con., brick and steel, 5th and Walnut Sts., to J. E. Taylor, 318 Reliance Bldg., $150,000.

Mo., St. Louis — APARTMENT — A. Mayer Real Estate Co., 4608 Gravois Ave., 3 story and basement, rein.-con., brick and terra cotta, Grand Blvd. and Alberta St., by day labor. $180,000. Private plans.

Mo., St. Louis — APARTMENT and STORE—E. M. Worthington, 4515 Maryland Ave., will build 6 story and basement, 99 x 206 ft., rein.-con., brick and terra cotta, West Pine St. and Newstead Ave., by day labor. $400,000.

Mo., Springfield—DEPOT—F. C. Jonah, ch. engr. St. Louis & San Francisco R.R. Co., Frisco Bldg., St. Louis, general contract remodeling and constructing 2 story and basement, 77 x 247 ft., stucco and hollow tile depot addition, here, to W. W. Johnson, Springfield. Archts. est. $250,000. Noted Mar. 4.

Ark., Hot Springs—HOTEL—C. Smith, et al., City Hall, will build 7 story and basement, 74 x 74 ft., rein.-con., brick and terra cotta, Central Ave. and Bway., by day labor, under supervision of C. Smith. $250,000. Private plans.

Tex., Corpus Christi — HOTEL — H. C. Wood & associates, c/o Travis Bldg., San Antonio, will build 6 story and basement, rein.-con. and brick, plain foundation, by day labor. $300,000. Kelwood Co., c/o Travis Bldg., San Antonio, archt. and engrs.

Tex., Wichita Falls — HOTEL — O. F. Marchman, 813 Scott St., general contract 5 story and basement, 100 x 150 ft., rein.-con., brick and stone, to R. Brown, 406 Perkins-Snider Bldg. Archts. est. $250,000. Noted Jan. 7.

Okla., Bartlesville — OFFICE — Phillips Petroleum Co., 7 story and basement, 60 x 140 ft., rein.-con., brick and steel, plain foundation, to W. S. Bellows, 812 Herskowitz St., Oklahoma City, $456,880. Noted Jan. 28.

Wash., Seattle — APARTMENT — University Dist. Development Co., 8 story and basement, 80 x 103 ft., rein.-con., stone and brick, East 43rd and Brooklyn Sts., to Walter & Brady, Hoge Bldg. Archts. est. $350,000. Noted Feb. 18.

Calif., Los Angeles—APARTMENT—S. F. Bard, Chamber of Commerce Bldg., will build 4 story and basement, brick, Argyle Ave., by day labor. $175,000.

Calif., Los Angeles — WAREHOUSE — Great Southwest Corp., 6 story, rein.-con., San Fernando Rd., to Robertson Co., Black Bldg., $225,000.

Calif., Los Angeles—LODGE and STORE—Wilshire Lodge Building Corp., 2 story, brick and concrete, 3rd St., to Meyer & Holler, Wright-Callender Bldg., $155,250.

Calif., Los Angeles—SALESROOM—M. Jacobowsky, 3756 West 1st St., and R. Rosenberg, 5041 Franklin Ave., 10 story and basement, 135 x 140 ft., steel and rein.-con., Santa Monica Blvd. and Vermont Ave., to Fidelity Constr. Co., 709 Hillstreet Bldg., $700,000. Noted Mar. 18.

Calif., Los Angeles—THEATRE—Strong & Wilson, c/o M. Hunt, archt., Hibernian Bldg., rein.-con., Vine St., to Scofield Eng. & Constr. Co., Pacific Finance Bldg., approximately $225,000.

Calif., Los Angeles — WAREHOUSE — Great Southwest Corp., 6 story, 90 x 200 ft., rein.-con., 2700 San Fernando Rd., to S. G. H. Robertson Co., 909 Black Bldg., $225,000.

Calif., San Diego—CLUB—Y. W. C. A. of San Diego, 5 story and basement, 100 x 150 ft., rein.-con., 11th and C Sts., to Wurster Constr. Co., Spreckels Bldg., $350,000. Noted Mar. 4.

Calif., San Francisco—OFFICE, etc.—Hale Bros., Market and 5th Sts., 10 story, rein.-con., Stevenson and 5th Sts., to MacDonald & Kahn, 130 Montgomery St., approximately $350,000.

Ont., London—OFFICE—J. M. Moore, archt., 489 Richmond St., 4 story, 300 x 350 ft., stone, Wellington St., to Yates Constr. Co., 17 Main St. E., Hamilton, for London Life Insurance Co., E. E. Reid, mgr., 424 Wellington St. Archts. est. $1,000,000. Noted Feb. 25.

B. C., Vancouver—HOTEL—The Georgia, Ltd., c/o R. T. Garrow, archt., 703 Yorkshire Bldg., general contract 12 story, 120

Buildings—Commercial (Continued)

x 150 ft., rein.-con., brick and tile, plain foundation, Georgia and Howe Sts., to Puget Sound Bridge & Dredging Co., Central Bldg., Seattle, Wash. Archts. est. $2,000,000.

B. C., Vancouver—STORE—W. Dicks Ltd., 45 Hastings St. E., general contract 4 story, 50 x 120 ft., rein.-con., tile and terra cotta, Homer and Hastings Sts., to Smith Bros. & Wilson Ltd., 850 Hastings St. W., $89,000.

Man., Winnipeg — MERCANTILE — T. Eaton Co. Ltd., Toronto, Ont., c/o H. M. Tucker, local mgr., Winnipeg, 121 x 218 ft., brick, steel, tile and stone addition, here, to Claydon Co. Ltd., Imperial Bank Bldg. Archts. est. $170,000. Noted Jan. 28.

Buildings—Industrial

Proposed Work

Mass., Boston — REPAIR GARAGE and DRYING HOUSE — Morgan's Furniture Co., 755 Washington St., plans brick drying house and repair garage. $40,000-$50,000. Engineer and architect not selected.

Mass., Cambridge (Boston P. O.) — FREIGHT HOUSE—Boston & Maine R.R., F. C. Shepherd, asst. ch. engr., North Sta., Boston, plans freight house and transfer system, Rutherford Ave., East Cambridge. $5,000,000. Private plans.

Mass., Holyoke—BOILER HOUSE—City, Gas House Dept., having plans prepared boiler house. $40,000. McClintick & Craig, 458 Bridge St., Springfield, engrs.

Mass., Somerville (br. Boston)—PLANT—First Natl. Stores, Inc., (combination of O'Keefe, Ginter & J. T. Conner Co.) plans manufacturing plant on land recently purchased near Ford Assembling Plant, Mystic Ave. Engineer and architect not selected.

Mass., Worcester—FACTORY—Worcester Paper Box Co., 40 Austin St., plans brick factory. $50,000 or more. Engineer and architect not selected.

N. Y., Brooklyn—PLANT—Kotten Machine Wks., 59 Academy St., having plans prepared by H. J. Nurick, engr. and archt., 44 Court St., 2 story, 80 x 100 ft., rein.-con., brick and steel, plain foundation, 34th St. $50,000.

N. Y., Brooklyn — PLANT — Pisciotta Bros., Inc., 426 Troutman St., having plans prepared by Laspia & Samenfeld, engrs. and archts., 269 Bway., 4 story, 50 x 200 ft., rein.-con., brick and steel, plain foundation, Troutman Ave. $130,000.

N. Y., Buffalo — FACTORY — Republic Metalware Co., 90 Alabama St., plans rein.-con., brick and steel extensions and improvements to present plant. $500,000. Hudson & Hudson, Dun Bldg., archts. Noted Mar. 11.

N. J., Elizabeth—SHOP and FOUNDRY—Lidgerwood Mfg. Co., 96 Liberty St., New York City, plans brick, steel and stone, plain foundation, here. Engineer and architect not selected.

N. J., Trenton — FACTORY — Pierce-Roberts Rubber Co., H. W. Roberts, pres., 33 South Dean Ave., plans rubber factory. $75,000. Engineer and architect not selected.

Pa., Phila.—MILL—Kauffman Plush Co., Pennsdale and Mitchell Sts., having plans prepared by Ballinger Co., 1220 Chestnut Sts., 5 story and basement, 80 x 106 ft., brick addition, plain foundation.

N. C., Coleridge—COTTON MILL—Enterprise Mfg. Co. plans enlarging plant on Deep River, incl. completing large brick building started and abandoned in 1921, heating plant, power, etc. $50,000. Lockwood-Greene & Co., Piermont Bldg., Charlotte, engrs.

N. C., Greensboro—FACTORY—Morgan Millwork Co., H. R. Heesh, mgr., plans 2 story, brick, Scott Ave., $100,000.

O., Cincinnati—PACKING PLANT—E. Kahns Sons Co., Livingston St., having plans prepared by Henschin & McClaren, 1637 Prairie Ave., 5 story and basement, rein.-con. and brick, Spring Grove St. $1,000,000.

O., Cleveland — FACTORY — Domestic Electric Co., R. J. Lamb, secy., 7209 St. Clair Ave., having plans prepared by W. J. Wefel, 5716 Euclid Ave., 2 story and basement, 40 x 140 ft., brick addition. $50,000.

Ind., Muncie—PLANT—Kuhner Packing Co., Whiteley and 13th Sts., had plans prepared 2 story, 90 x 178 ft., brick and steel cold storage plant, 13th and Whiteley Sts. $150,000. Private plans.

Ind., Muncie — FACTORY — Victor Garment Co., having plans prepared by Houck & Smenner, Muncie, 1 story, 100 x 195 ft., brick and steel factory. $40,000.

Mich., Ypsilanti—POWER PLANT, etc.—Ford Motor Co., Highland Park having

SUBWAY—NEW YORK, N. Y.

Bids were opened by Board of Transportation, 49 Lafayette St. (lowest four and highest) for Sect. No. 5, Route No. 102, along and under 8th Ave. from West 48th to West 58th Sts., (A) Heyman & Goodman Co., Inc., 236 West 116th St. (awarded contract) Alternate A; (B) Lustbader Construction Co., Inc., 101 Park Ave.; (C) W. H. Gahagan, Inc., 147 Remsen St., Brooklyn; (D) The Carleton Co., Inc., 151 West 42nd St.; (E) Niewenhous Co., Inc., 16 East 43rd St. The unit bids are as follows:

	A	B	C	D	E
121,000 cu.yd. earth excavation (contractor's disposal)	$12.00	$12.47	$13.40	$13.50	$17.20
121,000 cu.yd. earth excavation dump furnished by B. of T.	11.95	12.47	13.50	13.50	17.15
121,000 cu.yd. earth excavation disposal along Nassau Boulevard	13.00	13.50	17.30	15.50	27.00
171,500 cu.yd. rock excavation (contractor's disposal)	15.00	12.47	13.40	15.80	17.20
171,500 cu.yd. rock excavation dump furnished by B. of T.	14.95	12.47	13.50	15.80	17.15
171,500 cu.yd. rock excavation disposal along Nassau Boulevard	16.00	13.75	18.30	17.80	27.00
33,100 cu.yd. concrete masonry	22.00	21.64	20.00	23.00	26.00
83,500 sq.ft. rubbing concrete masonry	.10	.00	.15	.12	.15
4,200 cu.yd. protective concrete masonry	22.00	21.64	20.00	22.00	26.00
2,100 cu.yd. rubble stone masonry	10.00	10.13	12.00	12.00	14.00
25 cu.yd. dry rubble masonry	10.00	10.13	11.00	25.00	14.00
100 cu.yd. brick masonry	35.00	48.12	40.00	40.00	40.00
50 sq.yd. vitrified brick lining	6.00	7.00	7.50	9.00	7.00
20 cu.yd. hollow terra cotta	35.00	44.32	55.00	55.00	40.00
100 bbl. grout	6.00	5.06	8.00	6.00	7.00
200 sq.yd. plastering on hollow tile	2.00	3.74	2.00	2.00	2.00
10 cu.yd. broken stone or gravel	6.00	5.06	6.00	6.00	6.00
10,800 sq.yd. waterproofing—1 ply	1.00	1.49	1.50	1.00	1.50
22,800 sq.yd. waterproofing—3 ply	3.00	2.03	2.50	2.50	2.50
100 sq.yd. waterproofing—4 ply	4.00	2.50	4.00	4.00	5.00
100 sq.yd. waterproofing—6 ply	6.00	2.80	6.50	6.00	6.00
100 sq.yd. waterproofing, dry ply	1.00	1.00	1.50	1.00	1.00
720 cu.yd. brick in asphalt mastic—1 layer	45.00	50.65	55.00	50.00	50.00
10 cu.yd. brick in asphalt mastic—2 layer	45.00	48.17	54.00	50.00	50.00
500 lin.ft. 3 in. c.i. pipe class A	1.50	1.30	1.50	1.50	1.50
300 lin.ft. 4 in.	2.00	1.90	2.00	2.00	2.00
600 lin.ft. 6 in.	2.50	2.15	2.00	2.50	3.00
1,400 lin.ft. 8 in.	4.00	2.55	3.00	3.00	3.50
20 lin.ft. 10 in.	5.00	2.80	5.00	5.00	5.00
500 lin.ft. 3 in. galvanized steel pipe	1.50	3.20	2.00	2.00	2.00
400 lin.ft. 4 in.	2.00	4.00	2.00	2.00	3.00
100 lin.ft. 6 in.	4.00	4.05	2.00	3.00	4.00
50 lin.ft. 8 in.	6.00	7.25	5.00	4.00	5.00
65 lin.ft. 10 in.	8.00	7.60	6.00	5.00	6.00
160,800 duct.ft. tunnel ducts	.25	.23	.31	.25	.32
360 cond.ft. 3 in. fibre ducts	.40	.40	.45	.50	.50
5,950 tons riveted steel, etc.	120.00	129.15	125.00	118.00	150.00
12 tons architectural steel and iron	350.00	380.00	430.00	400.00	400.00
50 sq.ft. steel doors 3 ft. 6 in. x 7 ft. (swinging)	7.00	6.35	6.00	6.00	6.00
450 sq.ft. 3 ft. 6 in. x 7 ft. sliding doors of steel panels	7.00	7.60	6.00	6.00	6.00
2 emergency exit covers	1,000.00	320.00	455.00	500.00	600.00
285 ton steel rods and bars	110.00	109.00	110.00	125.00	150.00
19 ton miscellaneous iron castings	200.00	202.00	200.00	200.00	200.00
1,550 lb. special wire forms	.30	.32	.30	.30	.30
4,120 lin.ft. 1¾ in. oak or ash hand rail	1.00	1.00	.80	.50	1.00
5,300 sq.ft. steel gratings	4.00	3.20	4.00	4.00	4.10
500 sq.ft. vault lights	6.00	4.40	5.00	4.00	3.00
8,300 sq.yd. sidewalk restoration (street surface within curb lines)	3.00	3.15	3.00	3.85	3.10
6,000 sq.yd. repavement of roadway—asphalt	6.00	6.30	4.00	4.50	6.00
400 sq.yd. repavement of roadway—granite block	8.00	6.30	4.00	5.00	6.00

	A	B	C	D	E
4,950 sq.yd. repavement of roadway—Belgian block	$7 00	$3 80	$5 00	$5 00	$5 00
100 lin.ft. new 6 in. blue stone curb	3 00	2 75	3 50	5 00	4 00
8,950 sq.yd. repavement of roadway—wood block	6 00	6 35	5 00	5 00	6 75
150 lin.ft. 8 in. new granite curb	8 00	5 20	7 00	6 00	7 00
240 sq.yd. upper 3 in. concrete wall	3 00	3 80	4 00	3 00	3 00
20,300 sq.yd. temporary granite block pavement	3 00	5 60	3 00	3 00	3 00
9,000 lin.ft. ¾ in. steel electric conduit	40	.38	66	40	.50
50 lin.ft. 1½ in. steel electric conduit	.80	.50	1 00	1 00	.80
6,500 lin.ft. 1 in. steel electric conduit	60	.63	70	60	60
5 lin.ft. 2½ in. steel electric conduit	3 00	1 90	3 00	10 00	3 00
760 4 x 4 x 3 in. c.i. outlet box	3 00	2 50	2 50	2 00	2 00
10 6 x 6 x 4 in. c. i. pull box	4 00	5 00	7 50	10 00	7 00
1 6 x 12 x 3 in. c.i. pull box	10 00	9 00	15 00	20 00	15 00
40 lin.ft. 6 in. c.i. pipe ex. H	3 00	3 15	3 00	3 00	6 00
125 lin.ft. 3 in. c.i. pipe ex. H	1 40	1 25	3 00	2 00	3 00
10 lin.ft. 4 in. c.i. pipe Ex. H	2 00	75	5 00	4 00	5 00
100 lin.ft. 12 in. vitrified pipe sewer	7 00	6 40	12 00	14 50	8 00
400 lin.ft. 15 in.	8 00	7 50	12 00	15 00	10 00
500 lin.ft. 18 in.	10 00	8 70	15 00	15 50	12 00
100 ton c.i. sewer pipe—straight	120 00	114 00	255 00	150 00	170 00
50 ton c.i. sewer pipe—special	250 00	177 00	300 00	225 00	230 00
2,000 lin.ft. 3 ft. 6 in. x 2 ft. 4 in. sewer	20 00	31 80	30 00	21 25	17 00
450 lin.ft. 4 ft. x 2 ft. 6 in. sewer	22 00	34 20	30 00	25 00	19 00
1,300 lin.ft. 3 ft. 9 in. x 2 ft. 4 in. sewer	20 00	32 20	30 00	23 00	18 00
300 lin.ft. 4 ft. 9 in. x 3 ft. sewer	25 00	40 80	60 00	28 00	28 00
600 lin.ft. 5 ft. x 3 ft. 2 in. sewer	30 00	43 40	70 00	32 00	30 00
6,000 lin.ft. of single track for electric underground trolley railroad	10 00	25 00	15 00	10 00	15 00
4 elevated columns supported partly or entirely off R.R. structure	5,000 00	7,000 00	3,000 00	2,500 00	4,000 00
4 elevated stairway columns supported partly or entirely off R.R. structure	1,000 00	7,000 00	3,000 00	1,500 00	2,000 00
100 lin.ft. 6 in. c.i. water pipe	3 00	2 50	4 00	3 00	4 00
220 lin.ft. 12 in. c.i. water pipe	5 00	3 80	5 00	5 00	6 00
550 lin.ft. 30 in. c.i. water pipe	15 00	10 10	15 00	13 00	15 00
10 service connections for water pipes	100 00	44 30	50 00	50 00	50 00
100 lin.ft. 4 in. c.i. gas pipe	2 00	1 90	2 50	2 00	4 00
100 lin.ft. 6 in. c.i. gas pipe	3 00	2 50	3 00	3 00	5 00
100 lin.ft. 8 in. c.i. gas pipe	4 00	3 80	3 50	4 00	6 00
200 lin.ft. 12 in. c.i. gas pipe	5 00	7 60	5 00	5 00	7 00
100 lin.ft. 6 in. bypass (upon or below street)	8 00	17 80	5 00	5 00	12 0
75 lin.ft. 8 in. bypass (upon or below street)	12 00	19 80	20 00	7 00	14 00
4,000 lin.ft. 12 in. bypass (upon or below street)	20 00	23 80	25 00	12 00	20 00
4,000 lin.ft. 24 in. bypass (upon or below street)	30 00	29 80	40 00	25 00	25 00
125 lin.ft. 16 in. overhead by pass	10 00	15 20	35 00	20 00	22 00
100 lin.ft. cable support pipe 16 in. or over	10 00	12 70	10 00	10 00	20 00
10 service connections for gas	100 00	63 00	50 00	50 00	100 00
150 ton new c.i. pipe—straight (furnishing and laying)	120 00	114 00	125 00	120 00	150 00
70 ton new c.i. pipe—special (furnishing and laying)	220 00	203 00	250 00	225 00	220 00
100,000 duct.ft. vitrified clay electric ducts—laying	30	75	40	30	50
10 service connections for electric ducts	100 00	125 00	85 00	75 00	100 00
10 service boxes on relocated duct lines	250 00	250 00	275 00	250 00	200 00
10 junction boxes on relocated duct lines	500 00	380 00	500 00	350 00	400 00
10 additional junction boxes on relocated duct lines	500 00	380 00	800 00	500 00	500 00
Removal of buildings (lump sum)	.....	.....	.....	10,000 00	15,000 00
Removal of building material	1 00	2,600 00	100 00	200 00	100 00
Extended totals alternate A	$6,641,678	$6,942,393	$7,023,791	$7,060,495	$7,987,083
Extended totals alternate B	6,627,053	6,942,393	7,053,041	7,060,495	7,972,458
Extended totals alternate C	6,934,178	7,286,543	8,336,041	7,645,495	10,853,583

Buildings—Industrial (Continued)

plans prepared by A. Kahn, 1000 Marquette Bldg., rein.-con., brick and steel auxiliary steam power plant as reserve unit in connection with hydro-electric plant; also by owners engineering department rein.-con. dam, 34 ft. high, to impound lake ½ mi. wide, and 4,600 hp. hydro-electric power plant.

Ill., Decatur — POWER PLANT — City and Macon Co. Hospital Bd., North Edward St., having plans prepared by Brooks, Bramhall & Dague, Natl. Bank Bldg., and soon takes bids 2 story and basement, rein.-con., brick and steel power plant, plain foundation. $150,000. S. R. Lewis, 4075 Dearborn St., Chicago, consult. engr.

Ill., Joliet—SUB-STATIONS—Chicago & Joliet Electric Ry. Co., 301 North Ottawa St., having preliminary plans prepared 1 story and basement, concrete and brick electric sub-stations, one on east side, other on west side. $240,000. Private plans.

Wis., Madison — PLANT — Pennsylvania Oil Co., 736 East Washington Ave., having plans prepared by F. Riley, Conklin Bldg., 2 story, 50 x 100 ft., rein.-con., brick and steel warehouse and shop. $40,000.

Wis., Manitowoc—FACTORY—Westman Mfg. Co., North 11th St., having plans prepared by Smith & Brandt, Dempsey Bldg., 2 story, 50 x 100 ft., rein.-con. and brick addition, plain foundation.

Wis., Milwaukee—FACTORY—A. B. and B. Sheet Metal Wks., 3300 Fond du Lac Ave., having new plans prepared by H. J. Esser, 82 Wisconsin St., 2 story, 36 x 130 ft., brick addition, plain foundation. Noted Feb. 25.

Wis., Stevens Point—FACTORY—Automatic Cradle Mfg. Co., 235 North 3rd St., having plans prepared by F. Spalenka, 434 Normal Ave., 4 story, 72 x 80 ft., brick and timber addition, plain foundation. $50,000.

Wis., Stevens Point—FACTORY—Weber Lifelike Fly Co., 143 Main St., having plans prepared by F. Spalenka, 434 Normal Ave., 1 story, 62 x 100 ft., brick and timber, 3rd St. $40,000.

Wis., Two Rivers—FACTORY—Hamilton Mfg. Co., having plans prepared, 5 story L shaped, 122x130 ft. and 1 story, 120x250 ft. brick and steel additions, plain foundations. Lockwood, Greene & Co., 400 North Michigan Ave., Chicago, Ill., engrs.

Wis., Two Rivers—PLANT—Lockwood, Greene & Co., archts., 400 North Michigan Ave., Chicago, Ill., take bids about Apr. 15, 5 story, brick and steel addition, here, for Hamilton Mfg. Co. $300,000.

Ia., Muscatine — WAREHOUSE — H. J. Heinz Co., 1062 Progress St. N. S., Pittsburgh, Pa., having plans prepared 3 story, 65 x 210 ft., brick and steel warehouse. $225,000. Private plans.

Neb., Fremont—ICE CREAM PLANT—Graham Ice Cream Co., 1510 Jones St., Omaha, plans 2 story ice cream plant, brick. To exceed $50,000. Engineer and architect not selected.

Neb., Lincoln—POWER HOUSE, etc.—Lincoln Pub. Serv. Co. (consolidation of Lincoln Gas & Electric Co., 14th and O Sts., J. B. Hill, genl. mgr., and Lincoln Traction Co., Terminal Bldg.), plans to expend $1,350,000 during 1926, improving and uniting 2 plants, constructing new shops, etc.

Neb., Omaha — CREAMERY — Harding Creamery Co., 802 Harney St., making plans 1 story, brick top addition, 802 Harney St. $40,000.

Mo., Kansas City—POWER PLANT, etc. —St. Marys Hospital having plans prepared complete power plant. $85,000. Burns & McDonnell, 402 Interstate Bldg., engrs.

Mo., Kansas City—GYPSUM PLANT—U. S. Gypsum Co., 205 West Monroe St., Chicago, Ill., plans mill, here. $700,000. Private plans.

Mo., Kansas City—HEATING PLANTS —See "Buildings—Commercial."

Mo., Versailles — SHOE FACTORY — Tweedie Shoe Co., Jefferson City, having plans prepared by L. Abt, Moberly, and soon takes bids 1 story and basement, 50 x 234 ft., brick and tile factory, here. $75,000.

Tex., Amarillo — CREAMERY—Metzger Bros., c/o C. Metzger, Holmes St. Rd., Dallas, having plans prepared by F. J. Woerner & Co., engrs. and archts., 503 Central Bank Bldg., Dallas, 1 story, 48 x 60 ft., tile creamery, here.

Tex., Coleman — PUMPING PLANT — Prairie Pipe Line Co., plans large pumping plant in Dibrell Oil Field, near here, large rein.-con. dam across Ranch Creek River, and 9 mi. 6 in. and 8 mi. 4 in. pipe line from Pioneer. $600,000. Private plans.

Tex., Newton — ICE and WATER PLANT, etc. — J. I. Miller, Jr. and associates, having preliminary plans prepared water, ice and electric plants. $100,000. Private plans.

Tex., Port Arthur—PACKING PLANT —Zummo Packing Co. plans rein.-con. and

Buildings—Industrial (Continued)

brick packing plant. $70,000. Private plans.

Tex., Port Arthur—FOUNDRY and MACHINE SHOP—Gulf Coast Machinery & Supply Co., c/o R. M. Tyron, mgr., 305 Orange St., plans 1 story, steel and iron foundry and machine shop.

Tex., San Antonio—MACHINE SHOP, etc.—Fraternal Supplies Mfg. Co., 1017 North Salado St., c/o R. E. Chrone, mgr., having plans prepared tailoring machine shop, etc. $40,000. Private plans.

Okla., Tulsa—BAKERY—Tulsa Baking Co., 604 East 3rd St., c/o G. S. Hammond, Tulsa, plans fireproof plant addition. $50,000.

Calif., Fresno—PLANT—Hollywood Dry Ginger Ale Co., 1184 Harrison St., San Francisco, plans bottling plant. To exceed $40,000.

Calif., Monterey—PLANT—Interests represented by P. Ferranti, c/o Monterey Sardine Fishermens Assn., plans fish canning plant on 180 x 200 ft. site. $100,000.

Calif, Vallejo — PLANT — Sperry Flour Co., 141 California St., San Francisco, plans 2 story, 65 x 180 ft. cotton bag manufacturing plant, 3,000,000 bags capacity per month. $100,000. Eng. Dept. of Owners, engrs.

Calif., Vernon — FACTORY — Amer. Can Co., having plans prepared 2 story, 154 x 650 ft., probably rein.-con. addition. Eng. Dept. of Owners, engrs.

Calif., Willows—POWER PLANT, etc.—Glenn-Colusa Irrigation Dist., W. Durbrow, secy., making plans power plant to develop 13,000 hp., constructing dam across Sacramento River above Hamilton City, and 9 mi. canal. $2,000,000. F. H. Tibbetts, Alaska Commission Bldg., San Francisco, engr.

Ont., Tillsonburg — PLANT — Regal Oil Refinery having plans prepared oil refinery, concrete and brick. $1,000,000. W. B. Brooks and L. Frickman, c/o owner, engrs.

B. C., North Vancouver—OIL STORAGE—Imperial Oil Co. Ltd., Smythe St., Vancouver, C. M. Rolston, mgr., having plans prepared and soon takes bids oil storage depot, near Indian Reserve, here. $200,000. Private plans.

Bids Desired

Mass., Cambridge (Boston P. O.) — REPAIR and SERVICE GARAGE — See "Contracts Awarded."

R. I., Bristol—MILL—Mar. 30, by Cranston Worsted Co., Thames St., 4 story, 135 x 140 ft., brick and timber, Thames St. $225,000. Jenks & Ballou, 1035 Grosvenor Bldg., Providence, archts. and engrs. Noted Mar. 4.

Pa., Easton — LAUNDRY — Rough Dry Laundry Co., Bank St., taking bids 3 story and basement, 70 x 150 ft., brick, steel and concrete, Bank St. $40,000. C. D. Trumbauer, c/o owner, archt.

Mich., Muskegon — FURNITURE FACTORY—Mar. 31, by A. Kahn, archt., 1000 Marquette Bldg., Detroit, 5 story and part basement, 110 x 215 ft., rein.-con. and brick, plain foundation, for Shaw-Walker Co., 27 Division St. Noted Mar. 11.

Wis., Milwaukee—FACTORY—Mar. 29, by C. T. Gross, 3020 State St., and Henschien & McLaren, archts., 1637 Prairie Ave., Chicago, Ill., taking bids 1 and 2 story, 90 x 100 x 100 ft., rein.-con. and brick, plain foundation, Poplar St. $60,000. Noted Mar. 11.

Tex., Raymondville — COTTON COMPRESS — See "Contracts Awarded."

Man., St. Boniface—PAPER MILL—See "Contracts Awarded."

B. C., Vancouver — PLANT — See "Contracts Awarded."

Contracts Awarded

Mass., Brockton—REPAIR GARAGE—M. Goodman, 25 Pleasant St., 2 story, 80 x 240 ft., rein.-con., Main St., to J. A. Singarella, 110 High St., Boston. Archts. est. $175,000.

Mass., Cambridge (Boston P. O.)—REPAIR and SERVICE GARAGE—Cameron Ave. Garage Inc., 40 Cottage St., Chelsea, will build 1 story, 195 x 230 ft., brick, 5-7 Cameron Ave., by day labor. $100,000. S. E. Moffle, 51 Cornhill St., Boston, archt.

Conn., Waterbury—PRINTING PLANT—Waterbury American, 174 Grand St., brick and steel, Grand St., to Torrington Building Co., 182 Church St., Torrington. Archts. est. $150,000.

Pa., Beaver Falls—MANUFACTURING — Standard Steel Specialty Co., general contract 1 story, irregular shaped plant, Morado St., to Inland Constr. Co., Penn Ave., E. E. Pittsburgh. Engrs. est. $50,000.

Pa., Easton—PRINTING PLANT—Mack Printing Co., 1 story, 128 x 300 ft., steel, brick and concrete, to Central Constr. Co., 17th and Chestnut Sts., Harrisburg, $170,000.

Pa., Erie — SLAG MILL — Buffalo Slag Co., 1072 Ellicott Sq., Buffalo, N. Y., constructing slag mill, here, to Federal Concrete Co., 677 Wyoming Ave., Buffalo, N. Y., $150,000.

Pa., Phila.—SUB-STATION—J. I. Windrim, archt., Commonwealth Bldg., 1 and 2 story and basement, 60 x 100 ft., rein.-con. and brick, plain foundation, 19th and Oxford Sts., to F. K. Worley Corp., Wesley Bldg., for Philadelphia Electric Co., 10th and Chestnut Sts. Noted Mar. 4.

Pa., Stockertown—GARAGE and WAREHOUSE—Hercules Cement Co., 1 story, block garage and 2 story steel and concrete warehouse, to Austin Co., 1015 Chestnut St., Phila. Archts. est. $40,000.

Pa., Union—POWER PLANT, etc.—West End Power Co., Pittsburgh, 50,000 kw. power plant and power development on Cheat River, to Sanderson & Porter, 52 Williams St., New York City, N. Y. Engrs. est. $6,000,000.

O., Cleveland—MACHINE and FORGE SHOPS—Upson Walton Co., 1310 West 11th St., 1 story each, 120 x 120 ft. machine shop, and 60 x 120 ft. forge shop, brick and steel, 12500 Elmwood Ave., to Austin Co., 16112 Euclid Ave. Archts. est. $75,000.

O., Massillon—PLANT—Central Steel Co., 49 Koppers Becker By Products ovens with Benzol plant, to Koppers Co., Union Trust Bldg., Pittsburgh, Pa. Archts. est. $500,000.

O., Youngstown—PLANT—Republic Iron & Steel Co., 43 Koppers Becker By Products oven additions, to Koppers Co., Union Trust Bldg., Pittsburgh, Pa.

Ill., Highland Park—ICE PLANT—Highland Park Ice Co., 5538 Park Blvd., 1 story, 76 x 150 ft., brick, plain foundation, to W. W. Steele, 814 Oak St. Noted Mar. 11.

Wis., Milwaukee—FACTORY—Holeproof Hosiery Co., 404 Fowler St., 1 story, 150 x 150 ft., rein.-con. and brick top addition, to Dahlman Constr. Co., 456 Bway. Archts. est. $45,000.

Wis., Milwaukee—FACTORY—Meyer Ice Co., 885 30th St., 1 story, 79 x 143 ft., brick, plain foundation, 30th St., to K. W. Constr. Co., 589 Mabbett Ave. Archts. est. $40,000.

Wis., Milwaukee — FACTORY — E. B. Tonnsen Co., 113 Harmon St., 2 story, 86 x 88 ft., brick addition, plain foundation, to Wilke Bros., 1917 Oakland Ave. Archts. est. $40,000.

Wis., North Fond du Lac—FACTORY—J. E. Burke, 341 North Park Ave., 1 story and basement, 44 x 100 ft., rein.-con., plain foundation, to W. J. Friedrich, 31½ Fulton St., Oshkosh. Archts. est. $40,000.

Wis., Oshkosh — FOUNDRY — Wilkin-Challoner Co., Nevada and Mt. Vernon Sts., 1 story, 84 x 114 ft., brick and steel, plain foundation, to Fluor Bros. Constr. Co., 52 Otter St. Archts. est. $40,000. Noted Mar. 18.

Mo., St. Louis—COOPERAGE—St. Louis Cooperage Co., 133 Arsenal St., 2 story, 100 x 199 ft., rein.-con. and brick, Arsenal St., to Widmer Eng. Co., Laclede Gas Bldg. Archts. est. $42,000.

Tex., Raymondville — COTTON COMPRESS — Aransas Compress Co., will build concrete and corrugated cotton compress, by day labor. $65,000. Private plans. Noted Mar. 11.

Calif., Rialto — PACKING PLANT — Rialto-Orange Lemon Assn., 1 story and basement, 100 x 120 ft., rein.-con., to Sumner-Solitt Co., Delta Bldg., Los Angeles, $41,500.

Calif., San Francisco—PLANT—Persian Rug Co., 465 10th St., 3 story, rug cleaning plant, concrete, Otis St. near Duboce Ave., to J. H. Hjul, 128 Russ St. Engrs. est. $75,000.

Calif., Santa Ana—CREAMERY—Raitt Sanitary Dairy, 2 story, 50 x 75 ft., rein.-con., East 4th St., to Markel & Son, Santa Ana.

Man., St. Boniface — PAPER MILL — Weiner-Brownell Paper Mills Ltd., Winnipeg, will build 64 x 220 ft. mill, here, by day labor. $200,000. B. W. Parker, 624 Union Bank Bldg., Winnipeg, engr.

B. C., Vancouver—PLANT—Cotton Co. Ltd., False Creek Yards, will build bunkers and factory; by day labor. $50,000. Private plans.

Buildings—Educational, Religious

Proposed Work

Me., Augusta — CHURCH — St. Mary's Roman Catholic Church, T. J. McLaughlin, pastor, having plans prepared by O'Connell & Shaw, 124 Newbury St., Boston, 1 story and basement, rein.-con. and stone, Weston Ave. and Sewell St. $150,000.

Mass., Arlington (Boston P. O.) — SCHOOL — Town, School Comn., plans 2 story and basement, brick, Parmerter Dist. $150,000. Engineer and architect not selected.

Mass., Boston—SCHOOL—City, Schoolhouse Dept. plans 2 story and basement brick, Rutland St. $150,000. Engineer and architect not selected.

Mass., Boston—SCHOOL—City, Schoolhouse Dept., plans school, Regina Rd. and Park St., Dorchester Dist. $150,000. Engineer and architect not selected.

Mass., Clinton—CHURCH—First Methodist Episcopal Church, 77 Walnut St., having plans prepared by Woodbury & Stuart, 581 Boylston St., Boston, 2 story, 60 x 115 ft., rein.-con. and stone church. $150,000.

Mass., Danvers—HIGH SCHOOL—Town, School Comn. plans Senior and Junior High Schools. $500,000 appropriated. Engineer and architect not selected.

Mass., Duxbury — SCHOOL — Town, School Bldg. Com., plans 2 story, brick school, Alden St. $160,000. Engineer and architect not selected.

Mass., Easthampton — SCHOOL—Town, School Com., plans 2 story new school. $155,000 appropriated. Engineer and architect not selected.

Mass., Everett (br. Boston) — CHURCH—Glendale Baptist Church, E. P. Tuller, pastor, plans altering and constructing 2 story, 40 x 85 ft. with 20 x 60 ell, brick and stone, Bway. near Glendale Sq. $150,000 or more. Engineer and architect not selected.

Mass., Everett (br. Boston)—CHURCH—First Baptist Church, A. Jackson, chn. com., 512 Bway., plans 1 story and basement, stone church. $150,000-$200,000. Engineer and architect not selected.

Mass., Fitchburg — SCHOOLS and LIBRARIES — Voted $554,913 bonds, schools and libraries. Engineer and architect not selected.

Mass., Framingham — CONVENT — Bethany Convent plans rebuilding 3 story and basement, brick and stone addition, recently destroyed by fire. $200,000. Private plans.

Mass., Hingham — HIGH SCHOOL — Town, School Com., plans new high school. $250,000. Engineer and architect not selected.

Mass., Malden (Boston P. O.) — HIGH SCHOOL — City, School Com., F. G. Marshall, supt., plans Junior High School, brick. $150,000 or more. Engineer and architect not selected.

Mass., Mattapan (sta. Boston)—SCHOOL—Temple Agudath Israel, Woodrow Ave., plans raising $200,000 funds, school, Morton St. Engineer and architect not selected.

Mass., Medford (Boston P. O.)—DORMITORY—Tufts College, S. Robbins, ch. com., 20 Pemberton Sq., Boston, having sketches made by Andrews, Jones, Biscoe & Whitmore, 50 Congress St., Boston, 2 or more story, brick dormitory. $150,000.

Mass., Medford (br. Boston) — HIGH SCHOOL—City, Bd. Aldermen, plans Junior High School, 2 story and basement, brick and stone, Court and Park Sts. $500,000. Engineer and architect not selected.

Mass., Newton (Ind. br. Boston) — ACADEMY—Boston Academy of the Sacred Heart, 260 Commonwealth Ave., Boston, having sketches made by Maginnis & Walsh, 100 Boylston St., Boston, altering and constructing academy addition. To exceed $150,000.

Mass., Newton (Ind. br. Boston) — SCHOOL—City, School Com., plans 2 story and basement, brick, Chestnut Hill Dist. $150.000. Engineer and architect not selected.

Mass., Waltham (Ind, br. Boston) — SCHOOL—City, H. F. Beal, mayor, plans school in northeast section. $355,000. Engineer and architect not selected.

Mass., Williamstown — FRATERNITY — Delta Delta Fraternity House, Williams College, soon lets contract 3 story and basement, brick, steel and stone fraternity house. $150,000. Andrews, Jones, Biscoe & Whitmore, 50 Congress St., Boston, archts.

Conn., Hartford—CHURCH—Bradview Community Church, H. R. Pease, chn. building com., having plans prepared by Smith & Bassette, 36 Pearl St., 2 story, 45 x 95 ft. church, and 46 x 107 ft. community building, Roger and Oliver Sts. $160,000.

Conn., New Haven—HIGH SCHOOL—Bd. Educ., F. H. Beede, supt., plans 2 Junior High Schools, one Fairhaven Dist., and other Winchester Dist. $1,500,000. Brown & Von Beren, 185 Church St., archts.

Conn., Plainville—HIGH SCHOOL—Bd. Educ. plans 19 room, brick, East St. $200,000.

N. Y., New York—LIBRARY—City College, 139th St. and Convent Ave., having plans prepared by Crowe, Lewis & Wick, engrs. and archts., 200 5th Ave., brick, steel

Buildings—Educational, Religious (Cont.)

and stone, plain foundation, Convent Ave. $250,000.

N. Y., New York—SCHOOL—Bd. Educ., 500 Park Ave., having plans prepared by W. H. Gompert, engr. and archt., Flatbush Ave. extension and Concord St., Brooklyn, 5 story, brick, steel and stone, plain foundation, East 4th St. $550,000.

N. J., Red Bank—SCHOOL—St. James Roman Catholic Church, J. B. McClosky, rector, plans 3 story, 55 x 142 ft., brick school. $200,000. V. J. Eck, Red Bank, engr.

D. C., Wash.—CHURCH and SUNDAY SCHOOL—Western Presbyterian Church having plans prepared by F. J. Ritter, 701 19th St. N. W., church and Sunday school. $200,000.

N. C., High Point — HIGH SCHOOL — High Point School Bd. takes bids about Apr. 1, 3 story and basement, 225 x 365 ft. high school, between Jones and Chestnut Sts. $400,000. H. Barton, Greensboro, archt.

La., Marksville — HIGH SCHOOL — Avoyelles Parish School Bd., having plans prepared by W. T. Nolan, Canal-Commercial Bldg., New Orleans, 2 story, brick high school. $150,000.

Ky., Newport — SCHOOL — Bd. Educ. having plans prepared by C. C. and E. A. Weber, 1408 Ingalls Bldg., Cincinnati, O., 2 story and basement, rein.-con. and brick, plain foundation, Central St. $150,000.

O., Bowling Green—GYMNASIUM—Dept. Welfare, Oak and 9th Sts., Columbus, had plans prepared by H. B. Briggs, Ohio-Hartman Bldg., 1 story and basement, 75 x 100 ft., brick and concrete, here, for Bowling Green State Normal School. $150,000.

O., Dayton—HIGH SCHOOL—Bd. Educ., Ludlow Bldg., plans Junior High School, 2 story, rein.-con. and brick, North Riverdale. $400,000. Engineer and architect not selected.

Ind., Indianapolis—CATHEDRAL—A. A. Scottish Rite Masons, F. Stalnaker, chn., North and Meridian Sts., having plans prepared by G. F. Schreiber, 914 Merchants Bank Bldg., brick, steel, stone and rein.-con. cathedral. $2,500,000.

Ind., Indianapolis — SCHOOLS — Bd. School Comrs. having plans prepared by Daggett & Hibben, brick and rein.-con. addition to Grade School 37, Baltimore Ave. and 25th St., $185,000, C. Ammerman, 529 Occidental Bldg., engr.; by D. Graham, 1128 Hume Mansur Bldg., addition to Grade School 72, Troy and Carson Aves., $160,000, Snider & Rotz, 703 Merchants Bldg., engrs.; by Vonnegut, Bohn & Mueller, 610 Indiana Trust Bldg., addition to Grade School 42, 25th and Rader Sts., $185,000, Snider & Rotz, 703 Merchants Bldg., engrs.; by D. A. Bohlen, 1001 Majestic Bldg., addition to Grade School 33, 1119 Sterling St., $150,000, C. Ammerman, 529 Occidental Bldg., engr.; by Pierre & Wright, addition to Grade School 14, East Ohio St., $150,000, W. Breining, Indianapolis, engr.

Ind., LaFayette—SCHOOL—Bd. School Trustees, D. Simns, pres., having plans prepared by W. Scholer, brick and rein.-con. school for vocational and physical education. $330,000.

Mich., Muskegon — CHURCH — Central Methodist Episcopal Church, Clay Ave. and Jefferson St., having plans prepared by Vander, West & Child, archts. and engrs., Montgomery Blk., Muskegon, 2 story and basement, 110 x 262 ft., brick, plain foundation, Webster St. $300,000.

Wis., Fort Atkinson — SCHOOL — City, H. H. Smith, clk., plans 4 story, rein.-con., brick and steel school, plain foundation. $150,000. Engineer and architect not selected.

Wis., Green Bay — CHURCH — First Methodist Episcopal Congregation, H. Johnson, 509 Howe Ave., having preliminary plans prepared by C. Jansson, 58 East Washington St., Chicago, Ill., 2 story, brick and stone, plain foundation, here. $150,000.

Wis., Madison—SCHOOL—University of Wisconsin, J. D. Phillips, bus. mgr., Administration Bldg., having plans prepared by A. Peabody, State Capitol, 4 story, rein.-con., brick and steel, plain foundation. $600,000. Noted Mar. 4.

Wis., West Allis — SCHOOL — Bd. Educ., F. E. Hoker, pres., having plans prepared by Lindl & Schutte, 82 Wisconsin St., Milwaukee, 3 story and basement, brick and tile, plain foundation, Hawley Rd. $150,000.

Ia., Bedford—SCHOOL—Election Apr. 5, $160,000 bonds, for school, for Bd. Educ.

Ia., Des Moines—CHURCH—Plymouth Congregational Church, H. Wallace, chn., takes bids in April, 2 story and basement, 100 x 200 ft., rein.-con., brick and stone, 41st and Ingersoll Aves. $250,000. Dougher, Rice & Woodburn, 805 Valley Natl. Bank, archts. Noted Jan. 8.

Ia., Des Moines—CHURCH—Dougher, Rich & Woodburn, archts. and engrs., 806 Valley Natl. Bank Bldg., take bids about Apr. 16, 2 story and ground floor, 80 x 160 ft., rein.-con. and steel, plain foundation, 41st and Ingersoll Aves., for Plymouth Congregational Church. $300,000. Noted Mar. 18.

Ia., Muscatine—SCHOOLS—Voted $275,000 bonds, rein.-con., brick and stone school, and 2 additions to schools, for Bd. Educ. H. Ahlschlager, secy. Bd. Educ. Noted Mar. 4.

Minn., Minneapolis — SCHOOL — Bd. Educ., 305 City Hall, having preliminary plans prepared by Architectural Dept. of Bd. Educ., 3 story and basement, rein.-con., brick, tile and stone, 43rd Ave. N. between Morgan and Newton Aves. $250,000.

Minn., St. Paul — DORMITORY — Macalestor College, J. C. Acheson, pres., Grand and Snelling Aves., having plans prepared by W. M. Ingeman, 637 Endicott Bldg., 2 and 3 story and basement, 128 x 250 ft., rein.-con., brick and stone, on campus. $200,000.

Neb., Hastings — SCHOOL — Bd. Educ. had plans prepared by K. H. Gedney & Co., 2nd and Kansas Sts., 3 story and basement, 103 x 173 ft., brick and terra cotta addition. $150,000.

Neb., Hastings — SCHOOL — Bd. Educ. having plans prepared by K. H. Gedney & Co., 2nd and Kansas Sts., Longfellow Grade School, 2 story and basement. $165,000. Noted Mar. 4.

Neb., Mitchell — SCHOOL — Bd. Educ. having plans prepared by Meginnis & having plans prenared by Meginnis & Scharmberg, 405 Nebraska State Bldg., Lincoln, school. $150,000 bonds voted.

Neb., Omaha — CHURCH — Immaculate Congregation, 24th and Bancroft Sts., soon takes bids 1 story and part basement, 65 x 140 ft., brick and stone church and rectory. $150,000. J. M. Nachigael, 418 Paxton Bldg., archt.

Mo., Joplin—SCHOOLS—Bd. Educ. having plans prepared by Smith & Van Pelt, 819 Frisco Bldg., and takes bids in May or June, Jefferson, Lincoln, Longfellow, Washington, South Joplin and Smelter Hill Schools, each 3 story, brick and concrete and constructing additions to McKinley and Alcott Schools. $750,000. Noted Jan. 28.

Mo., St. Louis—DORMITORY—Washington University, Skinker and Forsythe Sts., soon takes bids 2 story and basement, 50 x 200 ft., rein.-con. and granite, campus. $200,000. Jamieson & Spearl, Arcade Bldg., archts.

Tex., Brownsville—HIGH SCHOOL—Bd. Educ. having plans prepared by H. P. Smith, c/o Natl. Bank of Commerce Bldg., San Antonio, Senior High School, 3 story, rein.-con., brick and tile, plain foundation. $150,000.

Tex., San Angelo—SCHOOL, etc.—Voted $250,000 bonds, Ward School and improvements to present buildings; also $250,000 bonds Junior College, both 3 story, rein.-con. and brick, plain foundation. Phelps & De Wees, c/o Gunter Bldg., San Antonio, archts. Noted Feb. 18.

Tex., San Antonio — CHURCH — St. Mark's Episcopal Church, c/o R. P. Crum, pastor, 315 Pecan St., having plans prepared by Giles & Beckman, c/o Moore Bldg., 3 story, 48 x 114 ft., rein.-con. and brick, plain foundation, Jefferson St. between Becan and Martin Sts. $200,000.

Calif., Fresno — SCHOOL — Bd. Educ., L. L. Smith, secy. having plans prepared by R. F. Felchlin Co., Patterson Bldg., Edison Technical School. $200,000.

Calif., Oakland — CHURCH — First Christian Church, H. Bruden, pastor, having plans prepared by W. H. Weeks, 369 Pine St., San Francisco, brick or concrete, 29th St. and Fairview Ave. $250,000.

Calif., Sanger—SCHOOL—Sanger High School Dist., defeated $270,000 bonds, additional wings and auditorium for high school. Noted Feb. 25.

Que., Quebec—SCHOOL—Roman Catholic School Comn., c/o I. Laroche, pastor, raising $200,000 funds 3 story, 300 x 75 ft., rein.-con., brick and timber, plain foundation.

Bids Desired

Mass., Melrose (Ind. br. Boston) — SCHOOL — City, Mayors Office City Hall, taking bids 2 story and basement, 58 x 173 ft., and 61 x 76 ft., brick and stone, 1st and 11th Sts., Winthrop School Sect. $200,000. C. R. Greco, 11 Beacon St., Boston, archt.

Mass., Middleboro — HIGH SCHOOL — Mar. 29, by Town, A. G. Newkirk, chn. building com., 2 story and basement, brick and stone high school. To exceed $150,000. W. H. McLean, 88 Tremont St., Boston, archt.

Conn., Waterbury—CHURCH—Mar. 29, by Immaculate Conception Church, c/o W. J. McQuirk, pastor, 1 story and basement, brick and stone, West Main St. $250,000. Maginnis & Walsh, 100 Boylston St., Boston, archts. Noted Feb. 18.

Md., Baltimore—CHURCH—Apr. 1, by Parker, Thomas & Rice, archts., Union Trust Bldg., 1 story and basement, irregular shape, stone, plain foundation, Garrison Ave. and Edgerton Rd., for Church of Holy Nativity, c/o architects. $160,000.

Fla., Jacksonville—SCHOOLS—Apr. 13, by Bd. Pub. Instruction, 2 auxiliary Junior High Schools, one at Myra St. between Stockton and Barrs Sts., and other on 11th St. between Main and Hubbard Sts., in Special Tax School Dist., Duval Co. M. C. Greeley, 111 West Adams St., archt.

Ala., Tuscaloosa—CHEMISTRY—Apr. 15, by Warren, Knight & Davis, archts., Empire Bldg., Birmingham, 3 story, 60 x 150 ft., rein.-con., brick and stone, on campus, here, for State Building Comn., Montgomery. $150,000.

O., Ashtabula—HIGH SCHOOL—Mar. 30, by Bd. Educ., 3 story and basement, brick, steel and concrete high school. $350,000. W. R. McCormack & F. C. Warner, Bulkley Bldg., Cleveland, archts. C. V. Martin, Ashtabula, associated archt. Noted Nov. 26.

Ind., Churubusco—SCHOOL—Apr. 6, by J. A. Pressler, trustee Smith School Twp., Whitley Co. (Columbia City), and Advisory Bd., Central Bldg., constructing and remodeling school addition, Churubusco Twp. $55,000. L. Bowers, Utility Bldg., Ft. Wayne, archt.

Ind., Evansville—SCHOOLS—Apr. 5, by Bd. School Trustees, additions incl. gymnasium, class rooms, cafeteria, etc., to Francis Joseph Reitz High School, $175,000, also additions, incl. concrete and steel stadium, class rooms, etc., to Benjamin Bosse High School, $220,000. J. C. Llewellyn & Co., 38 Dearborn St., Chicago, archts. C. L. Troutman, Evansville, archt. Noted Dec. 3.

Mich., Highland Park (br. Detroit)—CHURCH—Mar. 29, by Lane Davenport & Peterson, archts., 1017 Charlevoix Bldg., Detroit, 3 story and basement, 115 x 140 ft., rein.-con., brick and steel, plain foundation, for Highland Park Baptist Church, 25 Ford Ave., here. $150,000. Noted Mar. 1.

Mich., Kingsford Heights (br. Iron Mountain)—SCHOOLS—Apr. 1, by Bd. Educ., Breitung Twp., two 2 story and basement, brick and tile, plain foundations. F. E. and G. F. Parmelee, Iron Mountain, archts. $90,000 each. Noted Feb. 11.

Kan., Lawrence — AUDITORIUM — Apr. 15, by C. D. Cuthbert, state archt., State Capitol Bldg., Topeka, 160 x 200 ft., 2 balconnies, 6,700 seating capacity, rein.-con., steel and stone, for Kansas University, here. $250,000. Noted Dec. 10.

Calif., Los Angeles — CHURCH and SCHOOL—H. Cross, archt., Merchants Natl. Bank Bldg., taking bids rein.-con., Pico Blvd. and Arlington St., for Arlington Ave. Presbyterian Church. $150,000.

Calif., Los Angeles—SCHOOL—Mar. 31, by Bd. Educ., 28th St. School, 2 story, rein.-con., for Los Angeles City School Dist. $150,000. Hunt & Chambers, Hibernian Bldg., archt.

Calif., Petaluma—CHURCH—L. J. Devlin, archt., Pacific Bldg., San Francisco, taking bids rein.-con. and steel church, for St. Vincents Catholic Church. $150,000. Noted Oct. 29.

Calif., Whittier—SCHOOLS—Apr. 5, by Trustees Whittier City School Dist., for Bailey, Longfellow and Jackson Schools, 2 story each, rein.-con. $225,000. Rustin & Ashley, Chamber of Commerce Bldg., Los Angeles, archts.

Sask., Lebret—SEMINARY—Mar. 31, by Rev. Beys, archt., St. Boniface, Man., 4 story, 33 x 51 x 85 x 187 ft. brick seminary, here, for Oblate of Mary Immaculate, $200,00.

Bids Received

Md., Baltimore—SCHOOL—Bd. Awards, City Hall, Mar. 17, 3 story and basement, 64 x 252 ft., brick and steel, plain foundation, Preston and Walnut Sts., from Mason, Curley, Brady, 308 West Madison St., $327,000. Noted Mar. 4.

O., Lakewood (Cleveland P. O.) — SCHOOL — Bd. Educ., G. W. Grill, clk., 1456 Warren Rd., Cleveland, 2 story and basement, brick, steel and concrete, Lake Ave., here, from M. B. Parker Constr. Co., 1836 Euclid Ave., Cleveland, $143,772. Noted Feb. 25.

Contracts Awarded

Mass., Winchester—SCHOOL—Town, C. R. Main, chn., 2 story and basement, brick and steel, Highland Ave., to W. J. Delaney, 283 Essex St., Lawrence, $98,150. Noted Feb. 25.

Buildings—Educational, Religious (Cont.)

Mass., Woburn — CHURCH — Baptist Church, J. E. Vassar, pastor, 1 story and basement, brick and steel, Winn and Park Sts., to F. C. Alexander, 294 Washington St., Boston. Archts. est. $150,000.

Conn., Danielson — HIGH SCHOOL — Town, F. A. Jacobs, chn. com., 2 story and basement, 50 x 91 ft., and 50 x 91 ft. brick and steel additions, to A. F. Smiley Constr. Co., 308 Main St., Pawtucket, R. I. Archts. est. $150,000. Noted Feb. 25.

Conn., Torrington—CHURCH—St. Mary's Church, J. P. Kowelski, Forest Court, 1 story and basement, 60 x 115 ft., granite, Union St., to C. Abbadessa, 159 Winthrop St., New Haven. Archts. est. $150,000. Noted Feb. 11.

Conn., Middletown — LIBRARY — Wesleyan University, J. H. McConaughty, pres., for Olen Memorial Library, brick and stone, to H. Wales Lines Co., Meriden. Archts. est. $200,000. Noted Feb. 25.

N. Y., New York—PAROCHIAL SCHOOL —St. Anns Roman Catholic Church, L. Abbotts, pastor, 312 East 110th St., 5 story, brick, steel and stone, plain foundation, East 110th St., to Sobray-Whitcomb Co., 105 West 40th St. Archts. est. $200,000.

N. J., Plainfield—CHURCH—First Baptist Church, brick, steel and stone, plain foundation, to N. Kidde & Co., 140 Cedar St., New York City. $204,500. Noted Nov. 5.

Pa., Phila.—COLLEGE—St. Joseph College, A. G. Brown, pres., 17th and Stiles Sts., 2½ story and basement, 184 x 241 ft., rein.-con., brick, steel and stone, plain foundation, 54th St. and city line, to J. McShane, 1713 Sansom St. Archts. est. $1,000,000. Noted Feb. 18.

Md., Baltimore—HOME—Bureau Catholic Charities, 415 Cathedral St., 4 story and basement, 120 x 250 ft., brick and stone, plain foundation, at St. Agnes Hospital, to Frainie Bros. & Haigley, 19 West Franklin St., $500,000. Noted Mar. 11.

D. C., Wash.—HIGH SCHOOL—Dist. Comrs., Dist. Bldg., wing for MacFarland Junior High School, to F. E. Hartman Co., Inc., Charlottesville, Va., $145,225. Noted Mar. 11.

N. C., Goldsboro—HIGH SCHOOL—City, 2 story, fireproof high school, to J. W. Stout & Co., Sanford, $218,313. Noted Mar. 4.

O., Dayton—SCHOOL—Bd. Educ., Ludlow Bldg., 2 story, rein.-con. and brick, plain foundation, Huffman St., to H. R. Blagg Co., 1229 East 3rd St., $368,580. Noted Feb. 25.

O., Mt. Vernon—CHURCH—Bd. Trustees First Methodist Episcopal Church, general contract 2 story and basement, 135 x 140 ft., concrete and brick, to Hawkins Constr. Co., Newark, $140,100. Noted Mar. 11.

Ind., Indianapolis—SCHOOL—Bd. School Comrs., 150 North Meridian St., general contract School 78, Sherman Dr. and Vermont St., to Schlegel & Roehm, 606 Lombard St., $120,407. Noted Mar. 4.

Mich., Detroit — SCHOOL — Bd. Educ., 1354 Bway. Ave., 2 story and basement, rein.-con., brick and steel, plain foundation, Martin and McGraw Ave., to Rosewarne, McNabb & Worswick, 333 State St., $682,940. Noted Mar. 18.

Mich., Melvindale (Dearborn P. O., R. F. D. 2)—SCHOOL—Bd. Educ., 2 story and basement, 100 x 200 ft., rein.-con., brick and steel, plain foundation, to F. R. Patterson Constr. Co., 2631 Woodward Ave., Detroit, about $175,000. Noted Feb. 18.

Ill., Chicago—SCHOOL—Bd. Educ., 650 South Clark St., J. E. Byrnes, bus. mgr., general contract Walter S. Christopher School for Crippled Children, 1 story and basement, 210 x 210 ft., brick and terra cotta, West 51st St. and South Artesian Ave., to S. N. Nielsen Co., 3059 Augusta St. Noted Feb. 11.

Wis., Marshfield — HIGH SCHOOL — School Dist. 1, 3 story addition, 36 x 207 ft. 1 story, 62 x 108 ft., and 1 story 70 x 104 ft., rein.-con., brick and tile additions to vocational and Junior high school, plain foundations; to T. J. Molzahn, 2 Majestic Bldg., La Crosse, $189,290.

Wis., Milwaukee—SCHOOL—St. Stanislaus Congregation, 401 Mitchell St., 3 story and basement, 68 x 133 ft., rein.-con. and brick, plain foundation, Grove St., to S. Czaplewski & Sons, 878 2nd Ave. Archts. est. $275,000. Noted Feb. 25.

Minn., Minneapolis—BOTANY——Dept. Administration & Finance, Capitol, St. Paul, 3 story and basement, rein.-con., brick and stone on University Campus, here, general contract, to Devereaux-Olson Constr. Co., 716 11th Ave. S., $153,251. Noted Mar. 18.

Minn., Rochester—SCHOOL—Bd. Educ., S. L. Seamon, clk. Bd. Educ., general contract 3 story and basement, 64 x 244 ft., rein.-con., brick and stone school, to M. Madsen Co., 702 Natl. Bldg., Minneapolis, $187,000. Noted Mar. 18.

Mo., St. Louis—SCHOOL—Bd. Educ., 911 Locust St., general contract 3 story, rein.-con., brick and stone, Von Phul and Linton Sts., to H. Lloyd Building & Constr. Co., Syndicate Trust Bldg., $245,790. Noted Mar. 18.

Wash., Olympia — HIGH SCHOOL — School Dist., general contract 4 story, 77 x 150 ft., rein.-con., brick and steel addition, Wood pile foundation, Washington St. between 12th and 13th Aves., to Reid Bros. Constr. Co., Montesano, $129,497; heating and ventilating, to Rushlight, Hastorf & Lord, 371 Hawthorne Ave., Portland, Ore., $30,418. Noted Feb. 18.

Calif., Pasadena—HIGH SCHOOL—Bd. Educ., general contract Center-Oak Knoll High School, rein.-con., to United Building & Finance Co., 1262 North Fair Oaks Ave., $105,140. Noted Mar. 18.

Federal Government Work

Proposed Work

Mass., Bedford — Hospital — U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., making surveys site for hospital, here. $1,500,000.

Bids Desired

Mass., Rutland Heights — Refrigeration and Ice Plant—Apr. 20, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., refrigeration and ice plant, at U. S. Veterans Hospital 89, here. L. H. Tripp, ch. Constr. Div.

Mass., South Boston (sta. Boston) — Spec. 5185 — Dredging—May 5, by Bureau Yards & Docks, Navy Dept., Wash., D. C., dredging at dry dock, here. Noted Feb. 18.

Pennsylvania—Recreation, etc.—Apr. 27, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing recreation building, covered walk, duplex officers quarters, etc., at U. S. Veterans Hospital 103, Aspinwall-Sharpsburg. F. T. Hines, dir.; adv. E. N.-R. Mar. 25.

Pa., Chester — Remodeling — Apr. 13, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

D. C., Wash.—Granite—Apr. 22, at office Executive Officer Arlington Memorial Bridge Comn., granite for Arlington Memorial Bridge across Potomac River; adv. E. N.-R. Mar. 25. Noted Feb. 11.

D. C., Wash.—Hospital—Apr. 21, by Director U. S. Veterans Bureau, c/o Constructing Quartermaster, Munitions Bldg., mess and kitchen, ward buildings, etc.; also by Constructing Quartermaster, moving buildings, grading sites, etc., all above at Walter Reed General Hospital, Army Medical Center; adv. E. N.-R. Mar. 25.

Ala., Mobile — Quarantine Station — Apr. 16, by Treas. Dept. at office Supervising Archt., Wash., D. C., constructing quarantine station, here.

La., New Orleans—Earthwork—Apr. 15, by U. S. Engineers Office, 140 Decatur St., 6,500,000 cu.yd. earthwork in lower Tensas, Atchafalaya, LaFource, Barataria, Pontchatoula, Lake Borgne and Bayou Bouoff Levee Dists.

Tenn., Memphis—Levee—Apr. 12, by Dist. Engineer Mississippi River Comn., 5,600,000 cu.yd. levee earthwork in Upper and Lower St. Francis, Reefoot and White River Levee Dists.

Wis., Milwaukee—Cement—Mar. 30, by U. S. Engineer Office, 20,300 bbl. cement.

Tex., Abilene—Addition—Apr. 6, Treas. Dept. at office Supervising Archt., Wash., D. C., adding swing room at U. S. Post Office, here.

Calif., San Diego—Sewer—Spec. 5189—Mar. 31, by Bureau Yards & Docks, Navy Dept., Wash., D. C., outfall sewer at destroyer base, here. Noted Mar. 11.

Calif., Santa Barbara—Remodeling—Apr. 12, by Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here.

Bids Received

Pa., Lebanon—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office, here, from E. M. Spitler, Lebanon, $13,500. Noted Mar. 11.

Fla., St. Augustine—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., Mar. 19, remodeling and enlarging U. S. Post Office, here, from J. T. Parker, St. Augustine, $10,725. Noted Mar. 11.

Mich., Camp Custer (br. Battle Creek) — Walks—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Mar. 16, covered walks from O. F. Miller Co., Kalamazoo, $76,379 (2) $50,921 (3) add $365 (4) add $270. Noted Mar. 4.

Minn., St. Paul—Sidewalks—Treas. Dept. at office Supervising Archt., Wash., D. C., sidewalks at U. S. Post Office, here, from J. Sandquist, St. Louis, Mo., (a) $1,827 and (b) $1,298.

Oregon—Outlet Pipes—Bureau Reclamation, Dept. Interior, Denver, Colo., Mar. 9, 54 in. steel outlet pipes for McKay Dam, Umatilla Project, here, from Pittsburgh-Des Moines Steel Co., Curry Bldg., Pittsburgh, Pa., (1) $5,485 (1a) $6,350 (2) $15. Noted Feb. 4.

Calif., Eureka — Radio Tower — Spec. 5161—Bureau Yards & Docks, Navy Dept., Wash., D. C., Mar. 17, steel and concrete radio tower at Naval Radio Station, here, from Eureka Boiler Wks., Eureka, (1) $3,150 (3) $2,850. Noted Mar. 4.

Contracts Awarded

Pa., Erie—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here, to A. M. Lundberg, Times Bldg., St. Louis, Mo., $19,400. Noted Mar. 11.

N. C., Cape Lookout (mail Beaufort) — Compass Station—Bureau Yards & Docks, Navy Dept., Wash., D. C., two 100 ft. radio towers at Naval Radio Compass Station, here, to W. F. Martens, 212 East Ave., Rochester, N. Y., $4,900 (150 days). Noted Mar. 11.

Ala., Mobile—Remodeling—Treas. Dept. at office Supervising Archt., Wash., D. C., remodeling U. S. Post Office and Custom House, here, to A. C. Samford, 619 Shepard Bldg., Montgomery, $11,000. Noted Mar. 18.

Ind., Michigan City—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., 1 story extension and remodeling U. S. Post Office, here, to W. MacDonald Constr. Co., Odd Fellows Bldg., St. Louis, Mo., $18,660. Noted Mar. 18.

Ind., Terre Haute—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., post office and court room, here, to R. E. Meyer, 1901 Washington Ave., $9,700. Noted Mar. 18.

Mich., Jackson—Post Office—Treas. Dept. at office Supervising Archt., Wash., D. C., extension to U. S. Post Office and Court House, here, to Universal Constr. Co., Ft. Wayne, Ind., $14,700. Noted Mar. 18.

Kan., Hutchinson—Remodeling—Treas. Dept., at office Supervising Archt., Wash., D. C., remodeling and enlarging U. S. Post Office, here, to A. M. Lundberg, Times Bldg., St. Louis, Mo., $19,790. Noted Mar. 11.

Unclassified

Proposed Work

Pier and Boardwalk—Old Orchard, Me.—Whiteway Amusement Co., made plans pier and boardwalk. $28,000. Libby & Johnson, 200 Main St., Saco, engrs.

Subway Station—Boston, Mass.—Boston Elevated R.R., 31 St. James Ave., plans extending subway station 136 ft., Charles and Cambridge Sts. $200,000. Private plans.

Lighting System — Boston, Mass. — City Council plans to appropriate $25,000 lighting East Boston Airport. Engineer not selected.

Golf Course — Wellfleet, Mass. — See "Buildings—Commercial."

Swimming Pools — Scranton, Pa. — City Council appropriated $110,000, and soon takes bids constructing swimming pools in North, South and West Scranton.

Suburban Development — Greensboro, N. C.—Broadacres, Inc., purchased 150 acre site adjoining Sedgefield development, and plans suburban development, incl. sewers, waterworks, streets, etc. $50,000. R. B. Cridland, Bailey Bldg., Phila., Pa., engr.

Wharf—Wilmington, N. C.—Plans election $100,000 bonds, constructing wharfage on Old Liberty St. Shipyard.

Transmission Line — Biloxi, Miss. — See "Streets and Roads."

Stadium—Lafayette, La.—Southwestern Louisiana Institute, making plans rein.-con. and steel stadium, at athletic field. $50,000. Favrot & Livaudis, Hibernia Bldg., New Orleans, engrs.

Gas Mains—Indianapolis, Ind.—Citizens Gas Co., 47 South Pennsylvania St., C. C. Cray, purch. agt., plans laying 160,000 lin. ft. 4- to 16-in. c.i. pipe, etc., during 1926.

Swimming Tank — Detroit, Mich. — See "Buildings—Commercial."

Swimming Pool — Chicago, Ill. — See "Buildings—Commercial."

Unclassified (Continued)

Police Alarm System—Green Bay, Wis.—W. L. Kerr, city clk., plans police alarm system. $30,000.

Transmission Line—Sparks, Okla.—See "Waterworks."

Dock—Long Beach, Calif.—Making preliminary plans rein.-con. dock with transit shed on Channel 3, Slips 4 and 6. $750,000. Noted Dec. 24.

Ornamental Lighting System—Los Angeles, Calif. — Los Angeles Co. made plans steel standards on portions of Allen, New York Aves., etc., Co. Impvt. 518. $25,000 or more.

Tunnel — Oakland, Calif. — East Bay Municipal Utility Dist., made plans Claremont tunnel, 18,000 ft. long, 9 ft. diam. A. P. Davis, Oakland, ch. engr.

Swimming Pool—Petaluma, Calif.—City defeated $65,000 bonds, swimming pool. Noted Jan. 14.

Rolling Doors — San Francisco, Calif. — State Bd. Harbor Comrs., Ferry Bldg., making revised plans steel rolling doors for Pier 50. $20,000-$30,000. F. G. White, Ferry Bldg., ch. engr.

Fire Alarm Boxes—San Francisco, Calif.—City and San Francisco Co. making plans 150 fire alarm boxes in various sections. M. M. O'Shaughnessy, city engr.

Hydro-electric Development — Willows, Calif. — See "Buildings—Industrial."

Transmission Line—Cap-de-la-Madeleine, Que. — Shawinigan Water & Power Co., Shawinigan Falls, plans 6 mi. transmission line with 40 steel towers, 16 ft. high, here. $40,000. A. Dessoules, Shawinigan Falls, engr.

Transmission Line—Rouyn, Que.—Northern Canada Power Co., Timmins, Ont., plans 40-45 mi. probably steel transmission line from hydro-electric generating station on Quinze River to Rouyn mining camp, here. $400,000.

Switches, etc.—London, Ont.—Utilities Comn., Hydro Offices, plans 2 switches and additional transformers, remodelling and enlarging power control equipment. $25,000. E. V. Buchanan, c/o owner, engr.

Subway—Timmins, Ont.—Temiskaming & Northern Ontario Ry., North Bay, making plans concrete nad steel subway under railroad tracks, here. $25,000. S. B. Clement, North Bay, engr.

Bids Desired

Swimming Pool—Lawrence, Mass.—Mar. 29, by City, swimming pool in South Lawrence. $55,000. J. E. Allen, 283 Essex St., engr. Noted Mar. 4.

Bandstand, etc. — Thomaston, Conn. — Town, R. H. French, ch. com., High St., taking bids concrete bandstand, adding soil, sidewalks, etc., Center Park. $25,000. T. H. Desmond, Simsbury, engr.

Signal Tower—New York—Apr. 5, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York City, interlocking signal tower, at New Utrecht Ave. and 62nd St., Brooklyn; also sewer and water connections in various locations of Rapid Transit R.R., in Boros Brooklyn, Manhattan, Bronx and Queens.

Stable, etc.—Brooklyn, N. Y.—Apr. 1, by Armory Bd., J. B. Trainer, secy., City Hall, New York, additional stables and storage accommodation at armory of 101st Cavalry, 1579 Bedford Ave., here.

Lighting System—Biloxi, Miss.—Apr. 5, by Mayor and Comn. Council, White Way system on East and West Blvd. from Oak St. to city limits, 144 ten ft. concrete lighting standards with ornamental tops, etc. Hawkins & Madding, Biloxi and Gulfport, consult. engrs. Noted Mar. 18.

Unloader—New Orleans, La.—Apr. 20, by Bd. Port Comrs., New Court House, marine leg unloader with 1,000 lin.ft. belting, 8 ball bearing electric motors, 15 to 40 hp. each, etc. at Stuyvesant Docks.

Wall—Cleveland, O.—Mar. 26, by City, W. R. Hopkins, mgr., gravity or rein.-con. retaining wall along Doan Brook in Rockefeller Park. $50,000. S. Newman, City Hall, engr.

Stadium, etc. — Evansville, Ind. — See "Buildings—Education, Religious."

Power Plant Equipment—Richmond, Ind.—Apr. 12, by L. F. Ross, medical supt. Eastern Indiana Hospital for Insane, new 250 kva. engine and generator unit, transformer, switchboard, etc. in hospital. Snider & Rotz, 703 Merchants Bank Bldg., Indianapolis, engrs.

Transmission Line — Wisconsin — See "Contracts Awarded."

Culverts — Logan, Ia. — See "Streets and Roads."

Bids Received

Subway, etc. — Wash., D. C. — Dist. Comrs., Dist Bldg., Mar. 11, subway and bridge, at Van Buren St. and Baltimore and Ohio R.R. tracks, from Potomac Constr. Co., Wash., D. C., $69,697. Noted Mar. 4.

Ornamental Lighting System—Los Angeles, Calif. — Ornamental lighting system, incl. 100 precast ornamental stone posts, on Figueroa St. between Jefferson St. and Vernon Ave., etc., from A. C. Rice, 1957 Santee St., $33,436. Engrs. est. $36,722.

Wharf—Monterey, Calif.—City Council, Municipal Wharf 2, from A. W. Kitchen, 110 Market St., San Francisco, $199,977. Noted Mar. 11.

Contracts Awarded

Subway—New York, N. Y.—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., subway connecting Manhattan-Bronx Subway to Manhattan Elevated line, Agreement "EE," to M. D. Walsh, 1124 Findlay Ave., $218,920. Noted Mar. 11.

Power Development — Union, Pa. — See "Buildings—Industrial."

Stadium—Shreveport, La.—School Bd. Caddo Parish, rein.-con. stadium, for C. E. Byrd High School, to W. H. Buchanan, Haynesville, $44,950. Noted Dec. 31.

Lighting System—Kenilworth, Ill.—Randolph Perkins Co., engrs., 38 South Dearborn St., Chicago, 370 street lights, here, to A. Johnson of Electrical Contg. Co., 844 Rush St., Chicago, for Village. $72,871. Noted Jan. 28.

Transmission Line—Wisconsin—Wisconsin Valley Electric Co., F. Nolte, purch. agt., 206 3rd St., Wausau, will build 40 mi. transmission line between Wausau and Antigo by day labor. Private plans. Noted Mar. 11.

Culverts—Iowa—State Hy. Dept., Ames, 28 concrete culverts on Federal Aid Project 63-B and F, Lucus Co., to Repass Bros., Des Moines, $14,857; 16 concrete culverts on Federal Aid Project 274-A and B, Butler Co., to L. O. Kimball, Clear Lake, $5,100; 21 culverts on Federal Aid Project 197-A, Allamakee Co., to F. Carlson, Decorah, $6,044; 4 culverts on Primary Rd. 342-B, Mahaska Co., to A. P. Munson, Marion, $1,970. Grand total $27,971. Noted Feb. 25, under "Streets and Roads."

Ornamental Lighting System — Long Beach, Calif. — City Council, 200 metal standards on Atlantic Ave., to J. C. Perry, Detwiler Bldg., Los Angeles, $78,555. Noted Mar. 11.

Ferry Slip—Tiburon, Calif.—Northwestern Pacific R.R. Co., 64 Pine St., San Francisco, 350 ft. ferry slip and pile and timber approach, to Healy-Tibbitts Constr. Co., 64 Pine St., San Francisco.

Pier — North Vancouver, B. C. — Vancouver Oil Refining Co., 30 x 150 ft. pier and 700 ft. 10 ft. trestle for track and pipe line, on creosoted piles, to Vancouver Pile Driving Co. Ltd., 207 Hastings St. W., Vancouver, $25,000.

Materials

Proposed Work

Tar, etc.—Trenton, N. J.—Mercer Co. takes bids 100,000 gal. tar and 5,000 tons pebbles. $30,000. H. F. Harris, Court House, engr.

Bids Desired

Portland Cement—Boston, Mass.—Apr. 1, by Supply Dept., furnishing Portland cement to various city departments.

Cement, etc.—Springfield, Mass.—Apr. 7, at office City Clerk, Administration Bldg., asphaltic cement, asphalt, asphaltic and non-asphaltic road oils, hot and cold tars, castings, sewer pipe, etc. R. P. Marsh, supt. Dept. Streets & Eng.

Brick—Hartford, Conn.—Mar. 30, by Bd. Contr. & Supply, City Hall, 100,000 brick to be used for catch basins and repairing sewers.

Limestone Dust, etc.—Bridgeton, N. J.—Mar. 30, by City Council, City Hall, C. P. Corey, clk., 2,000 tons more or less limestone dust, and 1,200 tons more or less refined asphalt, delivered at city's siding at Asphalt Plant.

Cement, etc.—Collins, Miss.—Apr. 6, by F. C. McRaney, city clk., 1 car load cement in 100 lb. sacks, and 1 car load 18 and 20 in. concrete tiling.

Gravel, etc.—Greenville, Miss.—Apr. 2, by Highway Comrs. Washington Co., 7,000 tons washed sand, 10,000 tons washed gravel, 14,000 bbl. Portland cement, 25,000 ft. ¾ in. plain round steel barges, 18 ft. long, and 16,000 ft. 4 ft. long, 20,000 ft. ⅝ in. square deformed steel bars, 4 ft. long, and 25,000 ft. iron center strips, etc. $75,000.

Road Oil—Nashville, Tenn.—Mar. 30, by Bd. Pub. Wks., 25 tank cars asphaltic road oil. H. E. Howse, mayor. Noted Mar. 4.

Tar—Cincinnati, O.—Apr. 2, by Comrs. Hamilton Co., approximately 300,000 gal. Grade 1 tar. $33,000. E. A. Gast, Court House, engr.

Coal Cinders—Cleveland, O.—Apr. 2, by City, A. K. Hoare, purch. agt., 4,000 tons No. 1 coal cinders, for use at City Air Mail Field.

Creosoted Fir and Oak—Chicago, Ill.—Mar. 30, by Dept. Pub. Wks., City Hall, 51,080 ft. creosoted Douglas fir and red oak timber, f.o.b. at Municipal Plant, 31st St. and Sacramento Ave. A. A. Sprague, comr.

Tar and Asphalt—Clayton, Mo.—Mar. 31, by R. Jablonsky, engr. St. Louis Co., Court House, 300,000 gal. tar or asphalt equal to Tarvia or Asphalt Association Asphalt A 1 and 50,000 gal. tar equal to Tarvia A and B.

Crushed Stone, etc.—Toronto, Ont.—See "Streets and Roads."

Pipe, etc.—Vancouver, B. C.—Mar. 29, by City Council, 10,000 ft. 6 in. 5,000 ft. 8 in. and 5,000 ft. 12 in. cast iron pipe, one hundred 6 in., fifty 8 in. and fifty 12 in. valves. $15,000. C. Brackenridge, City Hall, engr.

Bids Received

Portland Cement, etc.—Brooklyn, N. Y.—J. A. Guider, pres. Brooklyn Boro, Boro Hall, Mar. 17, 8,000 bbl. Portland cement and 4,000 cu.yd. paving concrete sand, from M. F. Hickey Co., Inc., 83 9th St., $21,920 and $4,160 respectively; 5,000 cu.yd. course aggregate and 3,000 tons limestone dust, from New York Trap Rock Co., 101 Park Ave., New York City, $8,650 and $12,900 respectively; 3,000 cu.yd. sand grit, from Rosoff Sand & Gravel Co., 152 West 42nd St., New York City, $5,370; 2,000 cu.yd. paving sand, from T. E. McCormick, 810 Lincoln Rd., $2,250; 600,000 gal. asphaltic road oil, from Standard Oil Co. of New York, 26 Bway., New York City, $37,140; 600,000 gal. asphalt cement, from Warner Quinlan Co., 79 Wall St., New York City, $38,160; 500,000 gal. fuel oil, from Texas Co., 17 Battery Pl., New York City, $22,770; 12,000 cu.yd. asphalt sand, from Z. Mahoney, 557 46th St., $12,360; 8,000 cu.yd. binder stone, etc., from Calvin Tompkins Co., 30 Church St., New York City, $15,520; and 15,000 cu.yd. steam cinders from W. F. Rourke, 259 77th St., $17,250. Noted Mar. 11.

Cable, etc.—Milwaukee, Wis.—Central Bd. Purchases, Mar. 15, 41,405 ft. lead encased paper insulation cable, from Amer. Electric Wks., Phillipsdale, R. I., at $0.30 and $0.502 per ft.; and 20,000 ft. vitr. clay conduits, from Graybar Electric Co., 460 Milwaukee St., $0.089. Noted Mar. 11.

Contracts Awarded

Asphaltic Cement—St. George, N. Y.—J. A. Lynch, pres. Richmond Boro, Boro Hall, to J. E. Donovan, 2205 Richmond Terrace, Port Richmond, 276,000 gal. asphaltic binder $38,640, 2,600 cu.yd. 1½ in. stone $8,450, 450 cu.yd. ¾ in. stone $1,462, 500 cu.yd. screenings $1,625, 1,850 cu.yd. trap rock screenings $7,400, and 1,650 cu.yd. gravel for Dist. 1, $4,125; to Liberty Mason Supply Co., 67 Grant St., 1,100 cu.yd. concrete sand $2,453, 3,800 cu.yd. 1½ in. stone $11,932, 225 cu.yd. ¾ in. stone $707, 225 cu.yd. screenings $707; to Hygrade Builders Supply Co., 6th St. and 2nd Ave., Brooklyn, 3,900 cu.yd. 1½ in. stone $15,132, 175 cu.yd. ¾ in. stone $679, and 150 cu.yd. screenings $582; to J. Johnson Sons, 455 Bway., West New Brighton, 1,700 cu.yd. pea gravel for Dist. 2 $5,015, and 1,850 cu.yd. pea gravel for Dist. 3, $5,365, to Standard Oil Co., 26 Bway., New York City, 300 tons asphaltic cement $6,768; and to F. J. Lewis Mfg. Co., Eastern Blvd. and 177th St., New York City, 100,000 gal. road material $10,200. Grand total $121,242. Noted Mar. 4.

Cement — Detroit, Mich. — Comr. Purchase & Supplies, Marquette Bldg., 20,000 tons asphaltic cement to Dept. Pub. Wks., f.o.b. Detroit, to Standard Oil Co., 1011 4th St., $22.25 per ton in packages, and $18.50 per ton in tank cars.

Road Oil—Minneapolis, Minn.—A. P. Erickson, aud. Hennepin Co., 250,000 gal. road oil, to Standard Oil Co. of Indiana, 1937 Southeast 4th St., $0.0619 per gal. Noted Feb. 11.

Wood Blocks—St. Paul, Minn.—A. E. Eggert, city purch. agt., 2,000 sq.yd. 3½ in. 14-lb. oil impregnation, creosoted wood blocks, to Republic Creosoting Co., St. Louis Park, $2.35 per sq.yd. Noted Mar. 4.

Rails, Spikes, etc.—Vancouver, B. C.—Harbor Comrs., 280 tons 85 lb. rails, spikes etc., for terminal railway, to Leith, Murray & Co., 510 Hastings St. W., $24,000.

See proposal advertising on page 128, Advertising Section

HERCULES ON THE JOB

In Digging Machinery

Men can shovel to the degree that their backs hold out;

Machinery can dig to the degree that its power is steady.

Hercules Power typifies the highest development of the engine that has so universally replaced expensive and inefficient man power.

Hercules takes the machinery to the job—and stays on the job!

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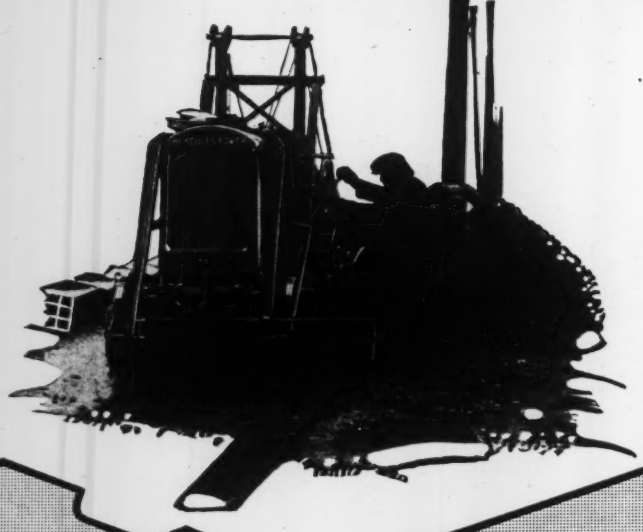

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